

OHIO UNIVERSITY BULLETIN

Vol. XXXII

January, 1935

No. 1

SUMMER SESSION ANNOUNCEMENT 1935

Regular Summer Session—June 10-August 2

Post Summer Session—August 5-August 23

ATHENS, OHIO

Published by the University and Issued Quarterly
Entered at the Post Office at Athens, Ohio, as Second Class Matter

BOARD OF TRUSTEES

	When Term Expires
Robert E. Hamblin, Toledo	Indefinite
Evan J. Jones, Athens	Indefinite
James P. Wood, Athens	Indefinite
Thomas R. Biddle, Athens	Indefinite
Fred W. Crow, Pomeroy	Indefinite
Eli R. Lash, Athens	Indefinite
E. C. Eikenberry, Camden	Indefinite
Charles D. Hopkins, Athens	Indefinite
Arthur C. Johnson, Columbus	Indefinite
Thomas J. Davis, Cincinnati	Indefinite
David H. Thomas, Marietta	May 14, 1935
John H. Preston, Athens	May 14, 1936
Jacob G. Collicott, Columbus	May 14, 1937
Fred G. Leete, Ironton	May 14, 1938
Fred Beckler, Athens	May 14, 1939
Charles E. Holzer, Gallipolis	May 14, 1940
Gordon K. Bush, Athens	May 14, 1941
Acting-President, Edwin Watts Chubb	Ex-Officio
Governor Martin L. Davey	Ex-Officio

OFFICERS OF THE BOARD OF TRUSTEES

David H. Thomas	President
George C. Parks	Secretary

COMMITTEES OF THE BOARD OF TRUSTEES

Auditing: Lash, Jones, Bush

Buildings and Grounds: Biddle, Collicott, Johnson, Beckler

Finance: Hopkins, Davis, Biddle, Wood

Library: Wood, Jones, Holzer

Publicity: Johnson, Bush

Teachers and Salaries: Johnson, Eikenberry, Hamblin

University Conference: Thomas, Crow, Collicott

The President of the Board of Trustees is Chairman of all Committees.

OHIO UNIVERSITY BULLETIN

Vol. XXXII

January, 1935

No. 1

SUMMER SESSION ANNOUNCEMENT 1935

Regular Summer Session—June 10-August 2

Post Summer Session—August 5-August 23

ATHENS, OHIO

Published by the University and Issued Quarterly
Entered at the Post Office at Athens, Ohio, as Second Class Matter

THE TWO SUMMER SESSIONS OF 1935

I. THE REGULAR SUMMER SESSION

Time

The regular half-semester summer session opens June 10 and closes August 2.

Registration

Registration for the regular summer session takes place in the Men's Gymnasium on Monday, June 10. Every student must present for entrance to the gymnasium a "Permit to Register." This permit states the time of the day when each student is to register. It must be obtained at the Registrar's Office. New students may get this permit in advance by mail or in the Fine Arts Building on registration day.

All students should have their Student Record Books with them for consultation with their advisers.

Student load

The regular student load will be eight or nine semester hours of credit.

Commencement

A regular commencement will be held on August 2. Diplomas and degrees will be conferred at that time.

II. THE POST SUMMER SESSION

Time

The Post Summer Session opens August 5 and closes August 23.

Registration

All who wish to register for this short session are asked to notify the Office of the Registrar not later than July 22. When filing such notice please state the title and course number of the course which you wish to take. Actual registration will be completed in the Office of the Registrar on Friday morning, July 28, by those who are in the regular summer session, and by all others on Saturday morning, August 3.

Student load

The student load will be not more than three semester hours of credit.

Commencement

No commencement will be held at the close of this short session, but diplomas and degrees will be conferred on those who complete courses at this time.

THE UNIVERSITY CALENDAR 1935-1936

SUMMER SESSIONS, 1935

Regular Summer Session

June 10, Mon.	Registration, 8:00 A. M.
June 11, Tues.	Classes begin, 7:00 A. M.
July 4, Thurs.	Independence Day: a holiday.
Aug. 2, Fri.	August Commencement.

Post Summer Session

July 22, Sat.	Notify Offices of Registrar of intention to attend Post Summer Session.
Aug. 2, Fri.	Registration.
Aug. 3, Sat.	Registration continued.
Aug. 5, Mon.	Classes begin.
Aug. 23, Fri.	Session closes.

First Semester, 1935

Sept. 23, Mon.	Registration begins, 8:00 A. M. Convocation for new students, 9:00 A. M., Memorial Auditorium. Registration of new students begins, 10:00 A. M.
Sept. 24, Tues.	Registration continued.
Sept. 25, Wed.	Classes begin, 8:00 A. M. Convocation, 9:40 A. M.
Nov. 22, Fri.	Mid-semester reports on delinquent students.
Nov. 27, to Dec. 2	Thanksgiving recess from Wednesday noon to Monday, 8:00 A. M.
Dec. 20, Fri.	Holiday recess begins at noon.

1936

Jan. 6, Mon.	Classes resumed, 8:00 A. M.
Feb. 7, Fri.	First semester closes.

Second Semester, 1936

Feb. 10, Mon.	Registration.
Feb. 11, Tues.	Registration continued.
Feb. 12, Wed.	Classes begin, 8:00 A. M.
Feb. 18, Tues.	Founders' Day.
April 10, Fri.	Mid-semester reports on delinquent students.
April 10 to April 14	Easter recess from Friday noon to Tuesday, 8:00 A. M.
May 22, Fri.	Senior Day.
May 27, Wed.	Award Day.
May 30, Sat.	Memorial Day: a holiday.
June 6, Sat.	Alumni Day.
June 7, Sun.	Baccalaureate Service.
June 8, Mon.	June Commencement.

ADMINISTRATIVE OFFICERS

EDWIN WATTS CHUBB, Litt. D., L.L. D.	<i>Acting-President, and Dean, College of Arts and Sciences</i>
	Ewing Hall
THOMAS COOKE MCCrackEN, Ph. D.	<i>Dean, College of Education</i>
	Cutler Hall
IRMA ELIZABETH VOIGT, Ph. D.	<i>Dean of Women</i>
	West Wing
JOHN REED JOHNSTON, A. B.	<i>Dean of Men</i>
	Cutler Hall
IRENE LUCILE DEVLIN, A. B.	<i>Executive Secretary</i>
	Ewing Hall
LEWIS JAMES ADDICOTT, C. E.	<i>Supervising Architect</i>
	Super Hall

FINANCIAL STAFF

(Ewing Hall)

GEORGE CRAWFORD PARKES, Ph. B.	<i>Treasurer and Business Manager</i>
JOHN ALONZO PALMER	<i>Assistant Business Manager</i>
EMMA RAYBOULD BATTIN	<i>Cashier-Auditor</i>
MILDRED LEONA BARBER	<i>Secretary</i>
MARY GERTRUDE PRITCHARD	<i>Secretary</i>

LIBRARY STAFF

(Edwin Watts Chubb Library)

ANNE CLAIRE KEATING, A. B.	<i>Librarian</i>
DORA MOORE, Ph. B.	<i>Cataloguer</i>
AMY ALLEN, A. B., B. L. S.	<i>Reference Librarian</i>
CANDUS MACE MARTZOLFF, A. B.	<i>Assistant Reference Librarian</i>
ANNE ELISE WHITE	<i>General Assistant Librarian</i>
MILDRED CAROLYN CHUTTER, A. B., B. L. S.	<i>Assistant Cataloguer</i>
*JANETTE WOOLSEY, M. S.	<i>Children's Library</i>
JUNE SOUTHWORTH, A. B., B. S.	<i>Assistant Cataloguer</i>
ANITA S. ANNAND, A. B., B. L. S.	<i>Acting Children's Librarian</i>

REGISTRAR'S OFFICE

(Ewing Hall)

FRANK BROWN DILLEY, Ph. D.	<i>Registrar, and Chairman of Entrance Board</i>
MARY ANTORIETTO, A. B.	<i>Recorder</i>
HELEN CORNEIL ROUSH	<i>Assistant Registrar</i>
BERTHA VICKERS	<i>Clerk</i>
VELMA STANEART, A. B. in Com.	<i>Stenographer</i>
MARY VICKERS ERSKINE, A. B.	<i>Assistant to the Registrar</i>
NELLIE BROOKS GRISWOLD	<i>Clerk</i>

*On leave of absence.

(Cutler Hall)

(East Wing)

(East Wing)

(East Wing)

M. ELSIE DRUGGAN, R. N.	Nurse
HELEN MOORE, R. N.	Assistant Nurse
BLAINE R. GOLDSBERRY, M. D.	Physician

OFFICERS OF INSTRUCTION*

EDWIN WATTS CHUBB, Litt. D., LL. D.
*Acting-President and Dean of the College of Arts and Sciences, and Professor
of English Literature*

THOMAS COOKE MCCrackEN, Ph. D.
Dean of the College of Education, and Professor of Education

IRMA ELIZABETH VOIGT, Ph. D.
Dean of Women

JOHN REED JOHNSTON, A. B.
Dean of Men, and Associate Professor of History

ALBERT ALGERNON ATKINSON, M. S.
Professor of Electrical Engineering and Physics

WILLIAM BURDELLE BENTLEY, Ph. D.
Professor of Chemistry

HIRAM ROY WILSON, Litt. D.
Professor of English

LEWIS JAMES ADDICOTT, C. E.
Professor of Civil Engineering, and Supervising Architect

WILLIAM FRANKLIN COPELAND, Ph. D.
Professor of Agriculture

THOMAS NATHANAEL HOOVER, M. Ph., A. M.
Professor of History

WILLIS LLOYD GARD, Ph. D.
Professor of Education

WILLIAM ALDERMAN MATHENY, Ph. D.
Professor of Civic Biology and Botany

WILLIAM HAWTHORNE COOPER, A. M.
Professor of Speech and Dramatic Art

GEORGE EVERT McLAUGHLIN, B. S. in Ed.
Professor of Industrial Education

ROBERT LEE MORTON, Ph. D.
Professor of Mathematics

VICTOR DWIGHT HILL, A. B.
Professor of Classical Languages

GERALD THOMAS WILKINSON, Ph. D.
Professor of French and Spanish

WALTER SYLVESTER GAMERTSFELDER, Ph. D.
Professor of Philosophy and Ethics

JAMES PERTICE PORTER, Ph. D., Sc. D.
Professor of Psychology

*Arranged in order of priority of service within respective ranks.

CLARENCE CRAMER ROBINSON, Mus. M.
Director of the School of Music, and Professor of Voice

OSSIAN CLINTON BIRD, Ed. M.
Director of Athletics, and Professor of Physical Education

CLYDE EDWARDS COOPER, Ph. D.
Professor of Geography and Geology

EDWIN B. SMITH, Ph. D.
Professor of History and Political Science

ALBERT CARL GUBITZ, A. M.
Professor of Economics

AZARIAH BOODY SIAS, Ph. D.
Director of Teacher Training, and Professor of School Administration

VELMA PHILLIPS, Ph. D.
Professor of Home Economics

EINAR AUGUST HANSEN, Ph. D.
Director of Rufus Putnam School, and Professor of Elementary Education

ALBERT TANGEMAN VOLWILER, Ph. D.
Professor of History

ADOLPH H. ARMBRUSTER, M. B. A.
Director of the Department of Commerce, and Professor of Finance

FRANK BARNHART GULLUM, M. S.
Associate Professor of Chemistry

MARY ENGLE KAHLER, A. M.
Associate Professor of English

CONSTANCE TRUEMAN MACLEOD, A. M.
Associate Professor of Education

HARRY HOUSTON PECKHAM, A. M.
Associate Professor of English

RAYMER MCQUISTON, A. M.
Associate Professor of English

FRANK WALKER REED, Ph. D.
Associate Professor of Mathematics

BRANDON TAD GROVER, B. S. in Ed.
Associate Professor of Physical Education, and Head Basketful Coach

DON C. PEDEN, B. S.
*Associate Professor of Physical Education, and
Head Coach of Football and Baseball*

MAUDE ETHEL CRYDER MATTHEWS, A. M.
Associate Professor of German

HENRY JOHN JEDDELOH, A. M.
Associate Professor of Sociology

DEFOREST WILBUR INGERHAM, Mus. B.
Associate Professor of Violin

JANE KELLOGG ATWOOD, M. S.
Associate Professor of Geography

RICHARD ALLEN FOSTER, Ph. D.
Associate Professor of English

JOSEPH BUNN HEIDLER, Ph. D.
Associate Professor of English

SARAH HATCHER, A. M.
Associate Professor of Physical Education

OLIN DEE MORRISON, A. M.
Associate Professor of History

HARVEY C. LEHMAN, Ph. D.
Associate Professor of Psychology

EMMETT ROWLES, A. M.
Associate Professor of Physiology

OSCAR EARLE MCCLURE, A. M.
Associate Professor of Electrical Engineering and Physics

ALBERT WESLEY BOETTICHER, M. S.
Associate Professor of Civic Biology and Botany

HARRY EDWARD BENZ, Ph. D.
Associate Professor of Mathematics

WILLIAM JOHN TRAUTWEIN, A. B.
Associate Professor of Physical Education

ROY HOYT PAYNTER, M. B. A.
Associate Professor of Marketing

EDNA MARTHA WAY, A. M.
Head of the Department of Art Education

JOHN HOMER CASKEY, Ph. D.
Associate Professor English

RALPH FERDINAND BECKERT, A. M.
Associate Professor of Accounting

AMOS CAREY ANDERSON, Ph. D.
Associate Professor of Psychology

ERNEST EUGENE RAY, M. B. A.
Associate Professor of Accounting

CURTIS WILLIAM JANSSEN
Associate Professor of Music, and Bandmaster

WALTER WENTWORTH WIGGIN, M. S.
Associate Professor of Agriculture

EDWARD CHRISTIAN CLASS, Ph. D.
Associate Professor of Education

CARL ADAM FREY, Ph. D.
Associate Professor of Bacteriology

LORIN COOVER STAATS, A. M.
Associate Professor of Speech and Dramatic Art

—o—

DOW SIEGEL GRONES, B. S. in Ed.
Assistant Professor of Industrial Education

JOHN ROBERT GENTRY, Ed. M.
Assistant Professor of Psychology

IDA MAE PATTERSON, M. S.
Assistant Professor of Home Economics

M. ELSIE DRUGGAN, B. S.
Nurse, and Assistant Professor of Hygiene

MARIAM SARAH MORSE, A. M.
Assistant Professor of Home Economics

WILLIAM HENRY HERBERT, A. M.
Assistant Professor of Physical Education

HAZEL M. WILLIS, A. M.
Assistant Professor of Art Education

MARY LOUISE FIELD, A. M.
Assistant Professor of History

CHARLES RICHARD KINISON, M. S. in Ed.
Assistant Professor of Industrial Education

JAMES RUEY PATRICK, Ph. D.
Assistant Professor of Psychology

FRANK JOHN ROOS, JR., Ph. B.
Assistant Professor of Art

ALLEN RAYMOND KRESGE
Assistant Professor of Organ, Harmony, and Piano

MARGARET AMELIA MATTHEWS BENEDICT, A. B.
Assistant Professor of Voice, and Director of Girls' Glee Club

WILLIAM RANSOM LONGSTREET, A. B., Mus. B.
Assistant Professor of Piano

MARY HELEN F. FRETTS, A. M.
Assistant Professor of English

LEWIS AMEDEUS ONDIS, Ph. D.
Assistant Professor of Spanish

EDWARD AUGUST TAYLOR, Ph. D.
Assistant Professor of Sociology

WILLIAM C. STEHR, Ph. D.
Assistant Professor of Entomology

MARY DEE BLAYNEY, A. M.
Assistant Professor of Music Education

CHARLES HENRY HARRIS, Ph. B.
Instructor in Journalism

WILLIAM FOSTER SMILEY, A. B. in Com.
Instructor in Journalism

MONROE THOMAS VERMILLION, M. S.
Instructor in Civic Biology and Botany

ARTHUR H. RHOADS, A. M.
Instructor in Physical Education

DORIS MAE SPONSELLER, A. M.
Instructor in Secretarial Studies

MARGARET ABEL, A. M.
Instructor in Art Education

CHARLOTTE ELLEN LA TOURRETTE, A. M.
Instructor in Physical Education

MARY KATHERINE BROKAW, A. M.
Instructor in Classical Languages

MARVEL C. MEE, B. S.
Instructor in Physical Education

MABEL NAEME SWANSON, M. S.
Instructor in Home Economics, and Director of Dining Halls

JEANNETTE BROWN, A. M.
Instructor in Music Education

JOSEPH E. THACKREY, A. M.
Instructor in Music Education

IRENE HAND, A. M.
Visiting Instructor in English

EVA VIRGINIA LAMON, A. M.
Visiting Instructor in Secretarial Studies

—o—

JULIA LUELLA CABLE, A. M.
Assistant in Psychology

MARY EUNICE SNYDER, A. M.
Teacher in Nursery School

TRAINING SCHOOLS

AZARIAH BOODY SIAS, Ph. D.

Director of Teacher Training, and Professor of School Administration

RUFUS PUTNAM SCHOOL

EINAR AUGUST HANSEN, Ph. D.

Director of Rufus Putnam School, and Professor of Elementary Education

MARIE ACOMB QUICK, A. M.

Supervising Critic, Kindergarten

MABEL BERYL OLSON, A. M.

Supervising Critic, First Grade

HELEN MARIE EVANS, A. M.

Supervising Critic, Second Grade

IRENE I. IRWIN, A. M.

Supervising Critic, Third Grade

MARGARET VIOLA NELSON, A. M.

Supervising Critic, Fourth Grade

MARY WARD, A. M.

Supervising Critic, Fifth Grade

ESTHER MAE DUNHAM, A. M.

Supervising Critic, Sixth Grade

CLARA HOCKRIDGE DELAND, A. M.

Supervising Critic, Special Education

MECHANICSBURG SCHOOL

HERBERT F. SPITZER, A. M.

Principal, and Supervising Critic, Seventh and Eighth Grades

EDNA E. FELT, A. M.

Supervising Critic, First and Second Grades

MARY VIRGINIA NESOM, A. M.

Supervising Critic, Third and Fourth Grades

JULIA PAULINE DAVIS, A. M.

Supervising Critic, Fifth and Sixth Grades

THE PLAINS SCHOOLS

HARRY VICTOR MASTERS, Ph. D.

Head of School, and Supervising Critic, Mathematics and History

LOUISE JANE DIVER, A. M.

Supervising Critic, English and History

DORIS BUCHANAN, A. M.

Supervising Critic, Home Economics

ELVA COOPER, A. M.

Principal, and Supervising Critic, Sixth Grade

GLADYS M. WILLIAMS, A. M.
Supervising Critic, First Grade

HELEN LESLIE DUNLAP, A. M.
Supervising Critic, Second Grade

EBBA LOUISE WAHLSTROM, A. M.
Supervising Critic, Third Grade

ALTA COOPER, A. M.
Supervising Critic, Fourth Grade

IRENE CONSTANCE ELLIOTT, A. M.
Supervising Critic, Fifth Grade

ATHENS HIGH SCHOOL

OLIVER L. WOOD, A. M.
Principal, and Supervising Critic, Mathematics

LLOYD B. BJORNSTAD, A. M.,
Supervising Critic, Industrial Arts

OLIVE V. CARPENTER, A. M.
Supervising Critic, Geography

EDWARD SAMUEL DOWELL, A. M.
Supervising Critic, Social Science

EVA V. LAMON, A. M.
Supervising Critic, Commerce

GLADYS E. MOORE, A. M.
Supervising Critic, Latin

ANNA PICKERING, A. M.
Supervising Critic, English

HALE CLIFFORD PICKETT, A. M.
Supervising Critic, Mathematics

WALTER P. PORTER, A. M.
Supervising Critic, Science

CARL HENRY ROBERTS, A. M.
Supervising Critic, History

GENERAL INFORMATION

LOCATION

Athens, the seat of Ohio University, is situated in the southeastern part of the State. It is easily accessible from the east and west by the Baltimore & Ohio Railroad and its branches; from the southern, central, and northern portions of the State by the Chesapeake and Ohio and the Toledo and Ohio Central railways. By these routes it is one hundred and sixty miles from Cincinnati and seventy-five miles southeast from Columbus. The sanitary arrangements of the city are unsurpassed. Its principal streets are paved; it is provided with water works and sewerage; its Board of Health is vigorous and efficient. There are few cities in the country that are more desirable as a place of temporary or permanent residence than Athens. The lover of natural scenery cannot fail to be charmed with its picturesque surroundings. The winding valley of the Hocking and the wooded hills beyond present a series of striking views from the University, while the wide prospects, as seen at certain seasons from some of the neighboring summits, afford a quiet and varied beauty.

ORIGIN

Educational effort at Ohio University is included in the work of the College of Arts and Sciences and the College of Education. Ohio University was organized by an act of the Ohio Legislature in 1804. The trustees are appointed by the Governor. The support is derived chiefly from a levy upon the taxable property of the State. The institution is the oldest of Ohio's three State Universities.

The College of Education was established by an act of the Ohio Legislature in March, 1902. It was opened for students in September, 1902, and at that time was known as the State Normal College.

ADMISSION

The University admits without examination graduates of the four-year high schools in Ohio which have been classed as First Grade by the State Department of Education. Graduates of secondary schools of other states whose own state universities accept them are admitted on the same basis as students who are residents of Ohio. Graduates of secondary schools in states which do not support universities of the same general scope and standard as Ohio are admitted, provided the student does not rank in the lowest third of his graduating class. Students who have completed fifteen units of credit from

a first grade high school in acceptable subjects are admitted without examination upon the recommendation of the principal of the high school, if their grades warrant it.

Courses in the high school must include the following requirements as given by the State Department of Education:

Two units of English.

Two units of social studies, one of which shall be advanced

American history ($\frac{1}{2}$) and civics ($\frac{1}{2}$).

One unit of natural science.

Two majors of three units each.

Two minors of two units each.

All students who have taken the College Ability Entrance Test will present an official record of it with their entrance credentials. The test will be given on Monday, June 10, at 3:00 P. M., in Cutler Hall to those who have not presented an official record showing that they have passed the test. A student must, however, receive a card from the Registrar's office to present to the examiner. Students who take the test at a later date will be assessed a fee of \$1.00.

Adult students 21 years of age or over may be admitted to the University upon passing the University General Ability Test, provided the scores are sufficiently high to assure the University that the student has the ability to carry college work even though he may have had no high school training or only a partial high school course. Such special student shall not become a candidate for graduation, however, until the deficiency in his high school education shall first have been made up. This test will be given at 3:00 P. M., June 10.

Students coming from institutions of higher learning will be required to present an official transcript of credit covering both high school and college records and a letter of honorable dismissal from the last college attended. The statement of honorable dismissal must apply to scholarship standing as well as to character. A student who has been dismissed from another college or is on scholastic probation at another college will not be admitted. If the student, by chance, shall become registered he shall be dropped as soon as his standing is ascertained. A student who does not earn points equal to one-half of the number of hours carried during the last semester of residence at another institution will not be permitted to matriculate at Ohio University, even though he has not been dismissed from the college or has not been placed on probation. A Freshman who has completed only one semester at another college must have a "C" average. No student transferring from another college will be given credit except at the time of admission to the University.

A student coming temporarily from some other college for summer work should arrange, before the regular school year ends, to have his Dean or Registrar send to the Registrar of Ohio University a statement of good standing.

GRADUATION

The Bachelor's degree (A. B., B. S., B. S. in Education, or other bachelor's degree) is conferred upon those who complete the requirements as set forth in the annual catalog. For detailed information see the annual catalog.

The Master's degree will be conferred on the completion of an additional

year's work of graduate quality in advance of the Bachelor's degree, provided that such work does not involve additional expenditure for laboratory or other equipment. Only students with excellent records as undergraduates will be admitted to graduate work. Admission to graduate study should be arranged before registration day.

All work for the Master's degree is done under the direction of a committee composed of the President of the University, the Deans of the Colleges, the Registrar of the University, and the Professor in charge of the major courses.

Inquiries concerning graduate study should be addressed to the office of the Registrar, Ohio University.

FACULTY

With few exceptions the regular faculty of the University will be on the campus for the work of the regular summer session. As many faculty members as are needed will remain for the post summer session. The type of instruction, therefore, during the summer session will be the equal of that during the regular college year.

TYPE OF WORK AND COURSES OF STUDY

The faculty offers the same high grade of work during the summer session that it does in the regular school year. The members of the student body are earnest and eager and appreciate their needs and opportunities. It is the purpose of the University to give practical courses that will meet these needs. Students are urged to bring their particular problems to the notice of the teachers and to make full use of the equipment of the University in solving them.

Superintendents, supervisors, and principals will find courses designed to help them with their problems. Opportunity will be given for research in the various fields of educational practice.

Those who are not preparing to be teachers will find ample provision for study in courses in the College of Arts and Sciences.

RESIDENCE

No student will be awarded a degree or diploma who has not been in residence at Ohio University two semesters or the equivalent. The last work of a diploma or a degree must be completed in residence. Two eight-week summer sessions are considered to be the equivalent of a semester. The post session will count as three weeks of required residence. Three summer sessions and three post sessions are considered the equivalent of one year of residence.

CREDIT HOURS

Students will be allowed to carry as few hours as they wish. The usual load of the student during the regular summer session will be eight semester hours of credit. Nine semester hours of credit will be allowed on the approval of the Committee on Registration where the student's record warrants it. Three semester-hour courses will meet six times a week, and other courses accordingly,

so that entire semester courses may be completed during the summer session. The maximum load during the post summer session will be three semester hours.

Classes may be visited or audited by those to whom special visitor's cards are issued by the President of the University. Any person wishing to audit regularly will be required to pay a fee of two dollars a semester hour, though no credit is expected or given.

Absences. Absence from class on the first day of the summer session may involve a reduction in the grade of the student. It is very important that every student be in class at the first meeting of the course. Students presenting acceptable excuses for the first day absences must do so at the Dean's office within ten days after registration day. Additional fees for late registration will be as follows; \$1.00 for registration June 11; \$2.00 on June 12; with increase of \$1.00 a day for later registration, including Saturday. In no case will the late registration fee be more than \$5.00. No registration will be allowed after Tuesday, June 18. In case a student finds it impossible to enter on registration day he should write to the office of the Registrar, asking for permission to enter late without special fee for late registration. Late registration will also mean in most cases that the student must carry fewer than the usual number of hours.

Any student absent from class on the last day of the session will have his report turned in as "incomplete" unless he has a permit from the President to leave before the close of the session.

Change in Registration. All changes in registration must be made in the office of the Dean of the college in which the student is registered. This applies to courses dropped, courses added, and changes from one course to another. No change in registration should be made after Thursday, June 20. A fee of one dollar (\$1.00) will be charged for any change after June 15.

SCHEDULE OF RECITATIONS

With few exceptions classes will begin at 7 o'clock and close at 12 o'clock noon. In general the afternoon will be free for study and recreation. A complete detailed schedule of recitations will be in print available for use of students and their advisers on registration day, Monday, June 10.

EXPENSES

Fees

Regular Summer Session

A registration fee of \$22.50 will be required of all students having legal residence in Ohio.

A registration fee of \$35.00 will be required of all new students who are legal residents of other states which support universities of the same general scope and standards as Ohio.

A registration fee of \$47.50 will be required of all new students who are legal residents of states which do not support universities of the same general scope and standards as Ohio.

Post Summer Session

A registration fee of \$5.00 for each semester hour of credit will be required of all students.

Laboratory Fees

The usual laboratory fees will be required in any summer session.

Books. Text-books can be purchased at a local bookstore at prevailing prices. Students should bring with them as many supplementary texts as convenient.

Incidentals. A student's incidental expenses are largely what he allows them to be. Such expenses need not be heavy during the summer session.

ROOMS AND BOARD FOR MEN

Men's Housing Bureau. The Housing Bureau for Men is located in the Office of the Dean of Men, Cutler Hall. Since the University does not maintain dormitories for men students, rooms for men are located in private homes which are listed by the Housing Bureau after they are inspected and approved. Students may secure these lists at the Office of the Dean of Men.

Rates for the rooms vary according to their locations, equipment, and the number of persons occupying them. This variation extends from \$1.25 to \$2.50 a person per week for double rooms; \$2.00 to \$4.00 for single rooms.

Men's Grill. The Ohio University Men's Grill is located on the ground floor of the Agricultural and Household Arts Building. Cafeteria Service at reasonable prices prevails for all meals.

ROOMS AND BOARD FOR WOMEN

Lindley Hall will be open for the summer of 1935 to women students. Furnishings of the rooms include everything necessary, except such personal things as towels, soap, dresser coverings, couch coverings, cushions, pictures, etc.

Room rent ranges from \$2.00 to \$2.75 a week per person; board, \$4.50 a week. Rent is due at the beginning of the summer for the entire session of eight weeks.

For assignments in Lindley Hall, write to Miss Mary Louise Field. Accompany your request for an assignment with a \$5.00 retaining fee. Write early and in case assignment is obtained, remember that no room will be held for any applicant later than 9:00 o'clock P. M. of registration day. No room will be held unless secured by the \$5.00 retaining fee.

Information about rooms in private homes may be obtained, upon personal application, at the Office of the Dean of Women. Addresses are no longer sent out by mail. These rooms may be rented at from \$2.00 to \$3.00 a week per person when two occupy the room.

LIBRARY

The Edwin Watts Chubb library will be open to all students daily, except Sunday, from 7 A. M. to 9:30 P. M.

EQUIPMENT FOR THE SUMMER

Buildings. With few exceptions all of the University buildings will be at the disposal of the summer session.

FACILITIES FOR STUDENT TEACHING DURING THE SUMMER SESSION

The College of Education of Ohio University adheres closely to the standards of the State Department of Education in requiring that student teaching be done before any diploma is issued by the University.

From four to eight hours of student teaching and three hours of observation and participation must be completed by a student before the two-year diploma or the B. S. in Education degree can be conferred. Student teaching credit will be transferred to the records of this institution from accredited colleges but such credit will not entirely satisfy the requirement of Ohio University. In every case the student shall do some student teaching in the training schools of the University. Qualified supervisors, superintendents, and principals, however, may satisfy this requirement by doing actual supervision in the training schools in conjunction with the regular critic teacher. This will be done in the course, "Supervisory Practice."

Particular attention will be given this summer to the training of "critic teachers" and supervisors. Special facilities will be provided for actual supervision of student teachers by members of this group. Much of the work will be carried on in the training schools.

All of the training schools of the College of Education will be in session during the regular summer session. The Elementary Training Schools, including the Kindergarten and Special Education classes, and the Junior and Senior High Schools, will offer opportunity for student teaching in accordance with the plans given below. Reservations for student teaching will be made in advance as long as places are available.

Fees. A fee of \$2.00 for each semester hour of credit will be charged for student teaching and supervisory practice.

THE TRAINING SCHOOLS

The Elementary Training Schools will provide opportunity for observation and student teaching in the kindergarten and the six grades of the elementary school. The work of each grade is in charge of an expert supervising critic teacher. The schools are typical elementary schools in so far as the enrollment is concerned. The equipment compares favorably with that found in the best type of city elementary school.

The work offered the children during the summer will include physical education, arts and crafts, and other interesting and pleasurable educative activities.

As a part of the regular work a kindergarten is conducted where students may observe and obtain practical experience in all phases of such work.

A class in special education will be in session for regular work for the training of teachers of exceptional children. Opportunity will be given for

actual work in the classroom and for instruction in methods adapted to this kind of school work.

The High Schools. The Junior and Senior High Schools will be in session during the eight weeks of the regular summer session. So far as is possible the curricula of the regular school year will be offered. Classes will be arranged in the Junior and Senior High Schools so that one-half of a unit can be obtained in one subject. The normal load will be two subjects.

Tuition. No tuition will be charged any pupil in any training school during the summer session.

STUDENT TEACHING PREREQUISITES

1. Students may do student teaching in the kindergarten and elementary school during the sophomore or later years of their college course only after the completion of the prescribed prerequisite work.

2. (a) A student who wishes to do student teaching in any elementary school must have completed not fewer than 32 semester hours of work required in preparation for teaching in the elementary schools and have maintained an average grade of one point in all of his university work. This regulation shall be in effect for all students September, 1936.

(b) A student must have an average of "C" or above in his English Composition courses or a "C" or above in his last course in English Composition before he may do student teaching in any school. The student who does not meet this requirement must complete an additional course in English Composition or repeat English Composition 202 without credit before being allowed to do student teaching, unless he has removed his deficiency by taking other courses in English and is approved by the Director of Teacher Training and the Dean of the College of Education.

(c) A student who wishes to do student teaching in any academic subject in the elementary school must be able to make a score of 80 on the Ayers Scale for Handwriting before being allowed to teach.

3. Seniors and college graduates who wish to take student teaching in the high schools must have completed at least the following courses in education, psychology, and methods before being admitted to student teaching. By special permission of the Director of Teacher Training and the Dean of the College of Education they may be taking some of these at the time they are teaching:

Principles of Secondary Education	3 hours
Special Methods (in subjects he wishes to teach)	2 hours
*Educational Measurements	2 hours
General Psychology	3 hours
Educational Psychology	3 hours
High School Observation and Participation	3 hours
School or High School Administration	3 hours

*This requirement is not to be placed on students whose major is Art, Commerce, Home Economics, Industrial Education, Mathematics in the College of Education, Music Education, or Physical Education.

In addition to the subjects mentioned above, the student must later complete the other professional requirements which are listed under General Requirements, 1. Education, and 2. Psychology, of the *Ohio University Bulletin*, Catalog Number.

4. A senior who wishes to do student teaching in the high schools must have ample preparation in the subjects he wishes to teach. Generally speaking, he must have completed not fewer than 18 hours of college work, including methods, with an average of one point in the subject he wishes to teach, or be taking enough to make that number of hours by the close of the semester in which he is teaching. For example: If the major is history, the student must have completed 18 hours in history or be carrying enough courses in it to complete that number of hours by the close of the semester in which he does his teaching; 18 hours from group A, B, C, or D required for the A. B. degree will not be sufficient to meet the requirements.

5. Seniors who wish to do student teaching in the high schools must have completed not fewer than 90 semester hours of university work and have maintained an average grade of one point in all of their university work. This regulation shall be in effect for all students September, 1936.

6. Only College of Education majors in the special subjects (art, commerce, home economics, industrial education, music education, and physical education) shall be eligible to do student teaching in the special subjects, but any of the foregoing special subjects may be carried as a teaching minor by students pursuing degree courses in the College of Arts and Sciences.

7. A student may do student teaching in the elementary school only after he has met the requirement in the knowledge of subject-matter as prescribed by the teacher training and academic departments and approved by the Dean of the College of Education.

STATE DEPARTMENT OF EDUCATION REQUIREMENTS FOR CERTIFICATION TO TEACH IN OHIO

The following statements include the minimum requirements for certification to teach any subject in the high schools or the special subjects in the elementary and high schools of the state of Ohio. These requirements are not identical with those of the College of Education of Ohio University and are stated here merely for the information of faculty advisers and students.

How to Determine Majors and Minors for Certification to Teach

ACADEMIC SUBJECTS*—

Major: 18 semester hours. Minor†: 10 semester hours. Credit in any subject listed may be counted in the group to which it belongs.

Subjects Included	High School Prerequisite
English—Public Speaking, literature (high school: rhetoric, classics)	3 units
History—Political Science, civics	2 units
Social Science—Economics, sociology, ethics, philosophy, logic	1 unit

*Note: Methods courses in any of these subjects may be counted in computing majors and minors. Five semester hours of collegiate credit in any subject may be offered in lieu of each unit of high school prerequisite in that subject.

†Twelve semester hours will be required for a minor effective September 1, 1935. The State Department of Education can furnish bulletin with new requirements.

Biological Science—Biology, zoology, botany, physiology, agriculture (high school: general science)	1 unit
Physical Science—Physics, chemistry (high school: general science)	2 units
Earth Science—Geology, geography, physiography (high school: general science)	1 unit
Mathematics—Algebra, geometry, trigonometry, astronomy, statis- tics, etc.	2 units
French—German—Spanish—Greek	2 units
Latin	4 units

SPECIAL SUBJECTS†—REQUIREMENTS IN THE MINOR

Home Economics—Including foods, clothing, home making, and methods.
Total, 18 semester hours.

Commercial Subjects—Including bookkeeping, 9 hours; stenography, 3
hours; typing, 3 hours; methods of teaching bookkeeping, stenography, and
typewriting, 2 hours. Total, 20 semester hours.

Physical Education—Including the principles, organization, and admin-
istration of health and physical education, 4 hours; theory and practice of
physical education including activities other than athletics, such as games of
low organization, stunts, apparatus, tumbling, swimming, elementary school
activities, dancing, etc., 4 hours; theory and practice of physical education
including athletic coaching in intramural and inter-scholastic athletics in
(men) football, soccer, speedball, basketball, baseball, tennis, track, (women)
soccer, volleyball, hockey, basketball, baseball, tennis, track, 4 hours; health
education including the teaching of health and school health problems, 4 hours.
Total, 16 semester hours.

Manual Arts—Including woodworking, metal working, general shop, and
methods. Total, 16 semester hours.

Fine Arts—Including freehand drawing, 6 hours; painting, 3 hours;
design, 3 hours; art appreciation, 2 hours; methods of teaching art, 3 hours.
Total 17 semester hours.

Music—Including sight singing, ear training, and elementary theory, 4
hours; history and appreciation, 4 hours; special methods including observation
in music, 6 hours; ensemble (glee club, chorus, orchestra, band) and applied
music, 4 hours. Total 18 semester hours.

BUREAU OF APPOINTMENTS

The service of the Bureau of Appointments is available to all students of
the University. Its purpose is to assist students and graduates of the Uni-
versity to obtain permanent employment or promotion in the kind of work for
which they have prepared themselves.

The Bureau of Appointments secures and keeps on file a complete record
of the education, experience, and personal qualifications of all students and
graduates who register. This information is used by the prospective employer
in determining whether or not the applicants are qualified for the positions

†Note: A major in any of the above special subjects involves the completion of a special
four-year course in that field.

to be filled. In order that the statements made may be frank and reliable, they are never shown to the students and graduates.

Forms may be secured from the Bureau of Appointments upon request. When registration is complete, candidates needing references should refer to the Bureau. Students and graduates keeping their records up-to-date in the Bureau year after year will have ready for immediate use, when needed, a complete and helpful record.

All students should register with the Bureau of Appointments early in the Senior year.

BAND, CHORUS, AND ORCHESTRA PARTICIPATION

The opportunity for ensemble experience in musical organizations is afforded through the Band, Chorus, and Campus Orchestra. These groups meet four times a week throughout the summer session.

SPECIAL FOUR-WEEK COURSES IN PHYSICAL EDUCATION

The coaching staff of the Physical Education Department will give special attention to courses in coaching and officiating during the Summer Session, 1935. These courses will include instruction in coaching football, basketball, baseball, and track. Coaches Peden, Trautwein, and Grover will be in charge of this work. Certain other short courses will be available.

This special session will open June 11 and continue four weeks, closing July 7. Additional courses in Physical Education and Health will be offered during the regular summer session of eight weeks and during the Post Session.

Fees will be the same as for the eight-week Summer Session.

UNUSUAL ADVANTAGES

Besides having an opportunity to pursue systematically almost any study desired, under the direction of those regularly employed in this work, the student of the summer session enjoys the advantages of the acquaintance, friendship, and counsel of superintendents, principals and others who are interested in education.

SUMMER PLEASURES

There is no more attractive, beautiful, and inspiring natural scenery anywhere in the State than in the country surrounding Athens. Various excursions, short trips, picnics, and hikes to many points of interest are organized under the direction of members of the faculty. While no official organization of these trips is made by the University authorities; nevertheless they are an enjoyable and valuable feature of a summer spent in Athens.

ARRIVAL IN ATHENS

On arrival in Athens, unless definite arrangements have been made concerning a lodging place, men students should report at once to the Office of the Dean of Men, first floor, Cutler Hall, and women students to the Office of the Dean of Women, second floor, West Wing.

PART 1. THE REGULAR SUMMER SESSION

DEPARTMENTS OF INSTRUCTION

The following courses of study are offered to meet the needs of students of both colleges—the College of Arts and Sciences and the College of Education. All courses in the 100's and 300's are regular courses in the College of Arts and Sciences; all in the 200's and 400's are regular courses in the College of Education. Many courses in one college will be accepted toward graduation in the other college. They are always accepted when there is no corresponding department in the other college, provided the required studies in the course in which one is enrolled allow their selection. The University reserves the right to discontinue any course if the students in it are few in number.

AGRICULTURE

201. Methods in General Agriculture. An outline of the subject matter of general agriculture and methods of presenting it. Planned to meet the needs of those preparing to teach agriculture and for those interested in the subject matter of general agriculture. Laboratory fee, \$1.00. Credit, three hours. Mr. Wiggin.

207. Forestry. This course aims to acquaint the student with ways and means of identification and classification of trees and native shrubs. Laboratory fee, \$1.00. Credit, two hours. Dr. Copeland.

414. Field Crops. A general course in the principles of plant growth and in the culture of field crops. The important cereal, grass, forage, and root crops are considered. Laboratory fee, \$1.00. Credit, three hours. Mr. Wiggin.

415. Evolution and Heredity. A consideration of the prominent theories of environment, evolution, and inheritance. This course is based on the idea that man's educational and biological progress depends, first of all, on his organic heritage. Prerequisite, a knowledge of botany or zoology. Credit, three hours. Dr. Copeland.

417. Rural Economics. A study of theories relating to farm problems of wages, rent, labor, land values, farm management, and marketing. Credit, three hours. Dr. Copeland.

419. Floriculture and Greenhouse Management. A study of the important cut-flower and pot-plant crops, and the management of greenhouses. Laboratory fee, \$1.00. Credit, two hours. Mr. Wiggin.

ART

102. History of Art. The comparative development of the three major arts, architecture, sculpture, and painting, is studied from the beginning of the

Renaissance to the present. The lectures are illustrated by lantern slides. Credit, three hours. Mr. Roos.

105. Introduction to Art. The appreciation of painting and the other arts is approached through a study of the principles of composition and other basic factors. The unity of all art and decoration within periods is studied, as well as the basic differences between good and bad art, by the study of examples. Especial emphasis is placed on the art of today. Credit, two hours. Mr. Roos.

201. Art Education. Art principles carried out in original designs in line, dark and light, and color. Representative drawing and painting, lettering. Credit, two hours. Miss Abel.

202. Art Education for Intermediate and Higher Grades. Discussion of modern tendencies in teaching art with variations of definite applications to activities of the classroom. Prerequisite, Course 201. Credit, one hour. Miss Willis.

204. Art Education for Early Childhood. Students plan and carry out problems, which might arise in an activity program. Class criticism is given from the point of view of the child, and that of the college student. Prerequisite 201. Credit, one hour. Miss Abel.

206. Applied Design. Principles of composition and color, applied to tied and dyed fabrics, batik wall hangings and painted tapestries. Prerequisite, Course 205. Credit, three hours. Miss Willis.

215. Art Structure. Development of creative ability through the study of how line, tone and color may be used to produce fine relationship in design and composition. Credit, two hours. Miss Willis.

224. Water Color. Principles of art structure applied in the painting of still-life and landscape compositions. Fundamentals of form, solidity, and depth are stressed. Prerequisite, Course 213 or 215. Credit, two hours. Miss Way.

225. Water Color. Landscape painting and sketching out-of-doors whenever the weather will permit. Prerequisite, Course 224 or permission of instructor. Credit, two hours. Miss Way.

311. Modern Art. A discussion of the factors through which developed the Modernists in painting is followed by an investigation of the Impressionists and the Post-Impressionists and the numerous schools which have followed them, both in Europe and America. The contemporary trend, as seen in architecture and sculpture, is also traced from the revivals of styles to the most radical examples as seen in Europe and America today. Credit, two hours. Mr. Roos.

415. Art Appreciation. Appreciative study of line, mass, color and form, through design, architecture, sculpture, and painting. Lecture with lantern slides and colored illustrations. Reports. Credit, one hour. Miss Way.

416. Art Appreciation. Continuation of appreciative study of the space arts. Application of art principles to all minor arts, to prints, and to domestic architecture. Prerequisite or parallel, Course 415. Credit, one hour. Miss Way.

441. Methods of Teaching Art. The relation and contribution of art to the life activities of children. Selection, organization and direction of child-

ren's activities in the field of art. Study of aims and methods for different types of schools. Examples, reports. For Juniors and Seniors only, or permission of instructor. Credit, two hours. Miss Way.

453. Art Structure. Composition in line and color for decorative panels executed as wall hangings, screens or painted tapestries. These are developed in the modern manner with special emphasis on form and modeling in color to produce depth. Prerequisite, Course 220. Credit, three hours. Miss Willis.

BIOLOGY

103. General Zoology. A broad survey of facts and principles of zoology as part of a liberal education and as preparation for teaching and advanced work. The chief topics considered are: nature of living material; source of animal energy; response to stimuli; principles of reproduction; brief review of the lower animal groups including reference to their economic importance, habits, and life histories. Four lectures and four hours of laboratory work each week. Laboratory fee, \$3.00. Credit, three hours. Mr. Rowles.

104. General Zoology. Continuation of Zoology 103. The topics considered are: review of the higher animal groups, including vertebrates, with reference to their economic importance, habits, and life histories; facts and factors of animal distribution and the relation of animals to their surroundings; organic evolution; Mendelian Heredity. Prerequisite or concurrent, Zoology 103. Four lectures and four hours of laboratory work each week. Laboratory fee, \$3.00. Credit, three hours. Dr. Stehr.

105. Readings in Biology. This course is offered for students who may be interested in advances in biological fact and thought presented in a non-technical and yet authoritative manner, especially as these apply to the broad field of human affairs. The subject matter is presented through the reading of selected books and magazine articles. As a prerequisite the student must have fulfilled the Arts College requirement in biology, or its equivalent. Reports, occasional quizzes, and conferences. Laboratory fee, \$1.00. Credit, one hour. Dr. Stehr.

309. Sanitation. A study of environment in its relation to human welfare. Subjects considered are: air, food, water, and milk as vehicles of infection; water purification and sewage disposal; camp and rural sanitation; swimming pool sanitation. These subjects are considered as sources of communicable diseases, attention being given to the mode of transmission and to methods of instituting proper means of control in each case. Designed for physical education students. Prerequisite, General Biology 101-102 or General Zoology 103-104. Four lectures each week. Credit, two hours. Dr. Frey.

315. General Entomology. A study of the structure, habits, and life-histories of insects, with practice in collecting, mounting, and identification. Required of students preparing for entomological positions. Recommended for students specializing in biology. Prerequisite, General Biology 101-102, or General Zoology 103-104. Four lectures and eight hours of laboratory work each week. Laboratory fee, \$3.00. Credit, four hours. Dr. Stehr.

321. Elementary Physiology. An abridged, one-semester course in human physiology which considers the general physiological principles of irritability, muscle and nerve physiology, blood, circulation, respiration, digestion, nutri-

tion, excretion, central nervous system, special senses, reproduction and the endocrine glands. Recommended for general students wishing a knowledge of physiology. Required of home economics and physical education students. Prerequisite, General Biology 101-102 or General Zoology 103-104. A knowledge of chemistry is desirable. Four lectures and eight hours of laboratory work each week. Laboratory fee, \$4.00. Credit, four hours. Mr. Rowles.

339. Principles of Physiology. A study of the properties of living tissue followed by study of the functions of muscle tissue, nervous system, special senses, blood, heart and circulation, respiration, nutrition and metabolism, excretion, temperature regulation, reproduction and endocrine glands in the vertebrates with special emphasis on the mammals. Open to upperclassmen. Prerequisite, General Biology 101-102, or General Zoology 103-104, and Chemistry 104. A knowledge of physics is desirable. Four lectures and eight hours of laboratory work each week. Laboratory fee, \$4.00. Credit, four hours. Mr. Rowles.

345. General Bacteriology. A study of the structure, classification, and relationships of bacteria, their conditions of existence; preparation of cultures, staining technic; biochemical reactions. Open to upperclassmen. Prerequisite, General Biology 101-102 or General Zoology 103-104, and a year of college chemistry. Two lectures and ten hours of laboratory work each week. Laboratory fee, \$5.00. Credit, four hours. Dr. Frey.

348. Animal Parasites. A study of parasites in relation to human disease: the parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. Recommended for pre-medical students and others specializing in zoology. Prerequisite, General Biology 101-102 or General Zoology 103-104, and an additional semester of zoology, preferably Comparative Anatomy. Four lectures and eight hours of laboratory work each week. Laboratory fee, \$4.00. Credit, four hours. Dr. Frey.

359. Zoology Methods. A course intended especially for students planning to teach high school biology. The following phases will be given special consideration: the place of biology in the high school; selection of texts and reference works; preparation and selection of laboratory materials; field trips; motion pictures; subject emphasis; controversial questions. Recitations, laboratory, and field practice. Prerequisite, General Biology 101-102, or General Zoology 103-104, and an additional laboratory course in zoology. Open to Seniors. Laboratory fee, \$2.00. Credit, two hours. Dr. Stehr.

363. Biological Problems. Subjects in one or more of the divisions indicated below are open to a selected group of students whose ability and previous preparation equip them to carry on semi-independent studies under the guidance of an instructor. Primarily for Seniors and graduate students. Required for B. S. in Biology. Permission of the Department. Laboratory fee, \$1.00 per credit hour. Credit, two to eight hours. Staff.

CHEMISTRY

103s. General Chemistry. An introductory course in the subject. Six lectures and recitations each week. Credit, three hours. Mr. Gullum.

103s. General Chemistry Laboratory. A laboratory course to accompany

General Chemistry 103s. Two two-hour periods each week. Laboratory fee, \$3.00. Credit, one hour. Mr. Gullum.

305. Qualitative Analysis. A general course in qualitative analysis dealing with the separation and identification of the metals. Two lectures and recitations and twelve hours of laboratory work each week. Prerequisite, Course 104. Laboratory fee, \$4.00. Credit, three hours. Mr. Gullum.

306. Qualitative Analysis. A continuation of Course 305. Complete qualitative analysis of simple substances and mixtures. Laboratory fee, \$4.00. Credit, three hours. Mr. Gullum.

309. Quantitative Analysis. A course in volumetric analysis. Four lectures and fifteen hours per week of laboratory work. Course 305 or 104a is prerequisite. Laboratory fee, \$4.00. Credit, four hours. Dr. Bentley.

315. Organic Chemistry. A short course in the subject with work in both aliphatic and aromatic series. Lectures and recitations six hours per week. General Chemistry 104 is prerequisite. Credit, three hours. Dr. Bentley.

317. Organic Preparations. A laboratory course in organic chemistry. Ten hours of laboratory work per week. Course 315 must precede or accompany this course. Laboratory fee, \$4.00. Credit, two hours. Dr. Bentley.

318. Organic Preparations. A continuation of Course 317. Laboratory fee, \$4.00. Credit, two hours. Dr. Bentley.

Courses 309, 315, 317, and 318 are designed especially for students preparing for the study of medicine. Completion of these courses will satisfy the medical college entrance requirements in these subjects.

341. Chemistry Laboratory Practice. Instruction and practice in laboratory teaching and supervision. Recommended to those preparing to teach chemistry. Admission by permission. Credit, two hours. Mr. Gullum.

CIVIC BIOLOGY AND BOTANY

204. Freshman Botany. A study of floral mechanisms and of the structures of non-flowering plants. Much practice will be given in the methods of plant identification and in the study of plants in their normal habitats. Plant collections will be made and classified. Laboratory fee, \$2.00. Credit, three hours. Mr. Boetticher.

205. Civic Biology. The greater portion of this course will be devoted to the study of insects and their varied contacts with man. Actual schoolroom participation will be had with silkworm culture—the complete process—and with ant colonies and observation beehives. Extended opportunity will be given for the study of many curious and interesting living insects. A permanent collection of representative specimens will be made by each student. Laboratory fee, \$2.00. Credit, three hours. Dr. Matheny.

206. Civic Biology. This course will be a study of birds, and the life commonly found in nearby pools and streams. The songs and nesting-habits of birds along with their food will be closely followed in the field. Eggs, nests, bird-structures and work will be arranged and classified in the museum. A survey of the water-life about Athens will be made. Each student will be required to establish, and maintain an aquarium throughout the course. In all

activities the teacher's needs and practices will be emphasized. Laboratory fee, \$2.00. Credit, three hours. Mr. Vermillion.

207. Zoology. A study of the invertebrates. The prevalence, growth, and structures of animals, along with their human relationships, constitute the offering of the course. Laboratory fee, \$2.00. Credit, three hours. Mr. Vermillion.

211. Plant Histology. An introductory course in the principles and methods of killing, fixing, imbedding, sectioning, staining, and mounting plant tissues. Attention will be given to drawing, reconstructing, and general microscopic usages. Laboratory fee, \$3.00. Credit, three hours. Mr. Boetticher.

406. Plant Pathology. A course dealing with the nature, cause, and control of plant diseases. Laboratory fee, \$2.00. Credit, three hours. Mr. Vermillion.

407. Ecology. A study of plants in relation to their environment. Laboratory fee, \$2.00. Credit, three hours. Mr. Boetticher.

409. Wild Flower Identification. The aim of this work is to familiarize the student with some of the many wild flowers common in this portion of the State, and to further acquaint him with the botanical manuals used in the identification of wild plant life. Near Athens there are many points of great botanical interest, such as Ash Cave, Rock House, Old Man's Cave, Natural Bridge, Buckeye Lake, Lake Alma, and "Buffalo Beat." Convenient afternoon trips will be conducted to these points. Credit, three hours. Mr. Boetticher.

414. Methods in General Science. A course intended to meet the needs of teachers of the subject. Both subject-matter and methods of presentation are considered. Credit, two hours. Dr. Matheny.

417. Bacteriology. An introductory course. Each student is given laboratory practice in the methods of cleaning, sterilizing, and disinfecting; preparation of various media; isolation and care of pure cultures; fermentation tests; water tests—presumptive for typhoid; milk tests; use of indicator media; and bacterial counts. Through the growth and handling of non-pathogenic bacteria many experiments are performed showing some of the common modes of disease tranference. A minimum of staining and microscopic technique is employed. Laboratory fee, \$2.00. Credit, three hours. Dr. Matheny.

421. Plant Physiology. The subject matter of this course includes the colloidal nature of protoplasm, and, in general, the chemical and physical structure of plant cells. Other topics considered are absorption, rise of sap, transpiration, and the general water relations of plants. Experimental laboratory methods are followed. Laboratory fee, \$2.00. Credit, three hours. Mr. Vermillon.

423. The School Museum. A study of the use, organization, and care of the school museum. The work is actual practice in the University Museum. Credit, two hours. Dr. Matheny.

CIVIL ENGINEERING

The following courses will be offered, and arrangement may be made to take any of the courses at any hour between 7:00 and 12:00 A. M.

101. Mechanical Drawing. No previous knowledge of mechanical drawing is pre-supposed. Much attention is paid to lettering. The first semester's work consists of exercises in the use of the drawing instruments, geometric constructions, and orthographic projection. Sectional and auxiliary views are also studied. Two hours daily. Credit, two hours. Mr. Addicott.

102. Mechanical Drawing. A continuation of Course 101. Isometric and oblique drawings are studied with a view to their applicability in pictorial presentation. Detailed and assembly drawings of standard machines are made and dimensioned. Floor plans and elevations of houses are drawn to acquaint the student with the reading of blue prints. Tracings and blue prints of these plans are prepared by the student. Two hours daily. Credit, two hours. Mr. Addicott.

305. Mechanical Drawing. Some previous training in mechanical drawing is required of students registering for this course, which deals with the making of working drawings, sectional drawings, detail drawing, and blue prints. Two hours daily. Credit, two hours. Mr. Addicott.

306. Perspective Drawing. A study of the representation of an object as it would appear on the plane, when viewed from a point. The drawing of shadows on objects and planes, both in parallel and oblique perspective, is studied. Prerequisite, Course 102. One hour daily. Credit, one hour. Mr. Addicott.

CLASSICAL LANGUAGES AND LITERATURE

121. Sallust's Catiline and Selections from the Jugurtha. The *Catiline* and selections from the *Jugurtha* will be read. Suitable for those who have had two years of Latin but open to more advanced students. Excellent material for parallel reading with Cicero's orations against Catiline. Also an opportunity for those who feel the need of an accredited review course. The work will be graduated to meet the needs of each individual. Credit, three hours. Miss Brokaw.

311. Greek Words in English. Literary and scientific terms of Greek origin provide a major part of the technical and semi-technical vocabulary in many of the most important professions. For students with literary interests, in the preparation for law, for biology and medicine, for other fields in which an accurate knowledge of words is important, the study of these terms and the principles on which they are formed offers a course of general interest and value. Special "laboratory" assignments will be arranged to develop the student's vocabulary in his particular field of endeavor. No previous knowledge of Greek required. (This course may be offered toward satisfying foreign language requirements.) Credit, two hours. Mr. Hill.

318. The Teaching of Latin. Lectures and discussions on methods of teaching Latin, on the relation of Latin to English, on determining the comparative merit and choice of textbooks, and on important reference material for teachers of high school Latin. Some study of important principles of the language with the reading of portions of Caesar in illustration. Credit, two hours. Mr. Hill.

324. The Latin Dramatists. Selected plays from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama

among the Romans and their relation to the Greek. Some attention to the difference between early Latin syntax as seen in the literature of the drama and that of the period of Caesar and Cicero. Credit, three hours. Miss Brokaw.

326. Petronius' *Cena Trimalchionis*. The *Dinner of Trimalchio* will be read and studied both for the light it throws on social life at Rome and as an example of the Latin of the Empire. Advanced students. Credit, two hours. Miss Brokaw.

329. Roman History in the Classical Period. A brief survey of the outstanding events of Roman History during the period in which the most important works of Latin literature were produced. Credit, one hour. Mr. Hill.

340. Special Work in Latin. This is intended to take care of the special needs of senior college or graduate students. Individual work will be done under careful guidance. Those interested should consult the instructor. Credit, one to three hours. Mr. Hill, Miss Brokaw.

COMMERCE

101. Accounting Principles. An elementary course in the fundamental principles of accounting theory and practice. Offered the first four weeks of the regular summer session. Two hours daily. Credit, three hours. Mr. Beckert.

102. Accounting Principles. A continuation of Accounting 101. Offered the second four weeks of the regular summer session. Prerequisite, Accounting 101 or its equivalent. Two hours daily. Credit, three hours. Mr. Beckert.

161. Stenography I. This is a beginning course in Gregg shorthand offered for students who wish to prepare themselves for teaching or for secretarial work. Attention is paid to principles of the theory of shorthand and to their application in the writing of sentences and brief letters. Students are expected to be able to do creditable transcription from dictation at sixty words a minute by the end of the course. One hour daily. Credit, three hours. Miss Sponseller.

166. Typewriting I. This course is planned for students taking the B. S. S. degree or the B. S. in Education degree with the secretarial major in commerce. It is open also, with or without credit, to students who wish to learn to use the typewriter for personal needs. The purpose of the course is to give students a knowledge of the keyboard and a knowledge of the working parts of the typewriter. Students should be able to write at a net rate of twenty-five words a minute on fifteen-minute copy by the end of the summer. At an additional two hours of practice each week will be required besides the daily recitation. Laboratory fee, \$1.00. Credit, two hours. Miss Sponseller.

190. Economic Geography. In this course a study is made of commercial conditions as they are found in various parts of the world as the result of certain physical and political influences, of the products of industries and commerce, and of the conditions of inter-dependence existing among different parts of the civilized world. Credit, three hours. Mr. Paynter.

193. Introduction to Business. A comprehensive picture of business life covering the organization and functioning of business enterprises. Required for the A. B. degree in Commerce. Recommended for teachers of commercial subjects and others. Credit, three hours. Mr. Beckert.

303. Accounting. This course is open to students who have a grade of C

or higher in Accounting Principles. It is designed to give practice in solving accounting problems, involving more points of difficulty than are encountered in an elementary course. It is a further preparation for the more difficult problems presented in C. P. A. Practice and Problems. Credit, three hours. Mr. Ray.

304. Industrial Management. An introductory course covering the principles of organization and the management of industrial enterprises; the management movement; newer principles and practices in functional factory organization. Credit, three hours. Mr. Armbruster.

331. Banking Principles. The economics of money and credits is reviewed as a basis for developing the principles which govern the operations of individual banks and the banking system. Principles are illustrated by discussion of the practical operations of different types of banking institutions and the leading banking systems. The course includes a critical analysis of the theory of bank credit and loan policy. Credit, three hours. Mr. Paynter.

346. Marketing Principles. This course will be devoted to a study of the principles, methods, and policies of marketing consumer's goods and industrial goods. It will involve a detailed study of the different marketing institutions and of the marketing functions performed by these institutions. Credit, three hours. Mr. Paynter.

363s. Dictation and Transcription. An entrance test is given to those who have studied the theory elsewhere. The Complete Theory and Sixty-word Transcription Test must be passed satisfactorily.

Principles are reviewed and work is continued in the writing of letters and articles at increasing speeds of dictation. One hour is spent in writing from dictation and in reading and discussing notes.

The second hour is spent in transcribing on the typewriter. Letter and manuscript forms are studied so that a perfect transcript may be produced. The 100-word transcription test should be passed in this course. Class meets two consecutive hours daily. Prerequisite, Course 162 or a writing knowledge of shorthand. Credit, four hours. Miss Lamon.

369s. Business Finance. A survey of the characteristics of corporate securities is followed by problems dealing with promotion, organization, and the provision of capital, both for new enterprises and for the expansion of established concerns. Text and case materials are used to bring out the economic and financial principles involved. Credit, three hours. Mr. Armbruster.

370. Teaching of Typewriting. This course is designed for those students who plan to teach typewriting in the high school. Students are expected to observe and report upon students who are learning to type in Course 166. In addition, an hour's conference is required each week based on the observations in Course 166 and definite reading assignments. Prerequisite, Course 168 or equivalent. Credit, two hours. Miss Sponseller.

371. Secretarial Theory. This is a course designed to familiarize secretarial and office workers with office machines, duties, and methods, and includes such projects as the use of the dictating machine, the transcription machine, various mathematical machines, filing, etc. In addition to the daily recitation, two hours of work each week are required. Prerequisite, Courses 162, 168. Credit, two hours. Miss Sponseller.

399. Business Statistics. A study of statistical methods with particular emphasis on their application to the analysis of business and economic problems. Prerequisite, Junior or Senior rank. Credit, three hours. Mr. Ray.

ECONOMICS

301. Principles of Economics. The purpose of this course is to serve as a background for all other courses offered in this department. It is essential that the student meet these requirements before pursuing other studies such as Labor Problems, Business Cycles, Transportation, and the like. The following economical material will be presented: production, consumption, distribution, and exchange. Not open to Freshmen. Credit, three hours. Mr. Gubitz.

302. Principles of Economics. An effort will be made here to present the chief economic problems, i. e., money and banking, business cycles, credit, international economic relations, government and taxation, and economic control. This course is designed to meet the requirements of students in all departments, regardless of specialty. Prerequisite, Course 301. Credit, three hours. Mr. Gubitz.

303s. Current Economic Problems. A discussion of economic problems arising currently. Prerequisite, Courses 301 and 302. Credit, two hours. Mr. Gubitz.

EDUCATION

Special Education

Special facilities are offered by the Ohio University for the preparation of teachers of special classes. The professional curriculum for Special Education students centers about the courses listed below and is supplemented by courses offered by the College of Education and the College of Arts and Sciences. A special class for exceptional children is maintained.

216. Organization and Management of Special Classes. Topics: need of special Education; history of the various classes for Sight-Saving, Crippled, Hard of Hearing, Mentally Retarded, and Defective in Speech; selection and classification of children; methods of cooperation with other departments; case studies and record taking; direction and after-care work of special class children. Credit, two hours. Mrs. DeLand.

223. Diagnosis and Remedial Instruction in Elementary Subjects. This is a laboratory course in methods of diagnosis and remedial treatment of problem cases in the fundamental school subjects. Special emphasis will be placed on reading, spelling, and arithmetic. Each student will be assigned at least one study for the purpose of doing remedial work. Children of all grades of intelligence who are not doing work up to their capacity will be made subjects of study. This course may be taken with profit on the two hour basis so as to parallel and supplement the courses 233 and 234 in student teaching during the summer session. It should be particularly helpful to students with teaching experience. Credit, three hours. Mrs. DeLand.

415. Curriculum and Special Methods for Special Classes. Topics: Types

of curricula for Special Education Children; units of work, materials and subject matter suited to their mental ability and level: methods of presenting and handling such units for very young and older special types. This course may be profitable to anyone teaching a group of children with a wide range of mental abilities such as are often found in small city schools or rural schools. Credit, three hours. Mrs. DeLand.

History, Principles, and Administration of Education

202. Activities for Early Childhood. This course deals with the activities which will meet the individual and social needs of the kindergarten and primary child. It includes sources of activities; criteria for judging them; experience in planning and carrying them on; their analysis to determine the outcomes in habits, skills, attitudes, appreciations, and knowledge; comparison of present day use of activities with the formal use of subject-matter; the evaluation and selection of materials to carry on activities. Laboratory fee, \$3.00. Credit, three hours. Mrs. Quick.

205. Literature for Early Childhood. This course includes a broad knowledge of the field of children's literature; stories for children in the home, nursery school, kindergarten and primary grades; standards of selection; source material; dramatization; planning story groups for special occasions; experience in story telling. Credit, three hours. Miss MacLeod.

261. History of Elementary Education. A course dealing with the development of the organization, curriculum, and the methods of teaching in the elementary schools. Credit, three hours. Dr. Gard.

262. Principles of Elementary Education. This is a synthesizing course intended for those who have enrolled for student-teaching or who have had student-teaching. The course includes a study of educational aims, values, principles, and methods based upon a democratic philosophy of education. The principles of the learning process and the principles of method are critically examined and related to the student's work in teaching. Open to Sophomores only. Credit, three hours.

265. Teaching Reading in the Primary Grades. A course planned to acquaint the primary grade teacher with the principles of methods of training pupils to read. It deals with the period of preparation for reading, the initial period of reading instruction, the period of rapid growth in fundamental attitudes, habits and skills. Scientific investigations are examined for their results as applied to the work of teaching. Credit, two hours. Dr. Hansen.

266. Teaching Reading in the Intermediate Grades. As in Course 265 the work deals with the principles of methods of teaching pupils to read effectively in grades four, five, and six. It begins with a general summary of these early periods. Remedial work is an important point considered. Credit, two hours. Dr. Hansen.

267. Educational Tests and Measurements: Elementary and Junior High School. An introductory course dealing with both standardized and informal new-type tests. Problems involved in the building, administering, scoring, and using and interpreting the results of tests will be considered. Sufficient attention will be given statistical methods to enable the student to classify and

analyze data and to become familiar with some of the more commonly used statistical terms. Open to Sophomores. Two recitations a week. Laboratory fee, \$1.00. Credit, two hours. Dr. Class.

285. Classroom Management. In this course problems dealing with topics of which the following are representative will be considered: membership and attendance, order and discipline, incentives, the health of the pupil, grading and promotion, the school curriculum, the daily program, supervised study and the assignment, and the use of tests and measurements. Differences between practices in formal schools and activities schools will be dealt with throughout the course. Three recitations a week. Credit, three hours. Dr. Class.

407. Kindergarten-Primary Curriculum. A study of the principles underlying the selection and organization of the content of a curriculum for kindergarten-primary education; the factors to be considered in constructing a curriculum; the nature of the curriculum; evolution of the present day curriculum for kindergarten-primary grades; standards for evaluating curriculums formulated from the study of type curriculums; activities and units of work which may be included in a kindergarten-primary curriculum; the record summary in relation to the curriculum; practice in some phase of curriculum construction. Open to Juniors and Seniors in Kindergarten-Primary Education. Credit, three hours. Miss MacLeod.

416. Current Problems in Kindergarten-Primary Education. A study is made of the articulation of the nursery school, kindergarten and primary grades; recent movements in the kindergarten-primary field; investigation in some special field of interest. Open to students of advanced standing in Kindergarten-Primary Education. Credit, three hours. Miss MacLeod.

436. Supervisory Practice. This course is for advanced students who wish to prepare for positions as critic teachers or supervisors. The purpose of the course is to provide experiences for the student in guiding the work of students who are doing practice teaching. The regular critic or supervisor is also the classroom teacher in the rooms chosen for this work. The work will include the following duties: evaluating the work of children with student teachers; planning work; conducting conferences with individual student teachers and with groups; selecting and organizing units of professional work; and leading seminar discussions.

This course should parallel or follow Course 495, Training School Problems. Graduate students and Seniors who have had successful teaching experience may register for the course. Laboratory fee, \$2.00 per credit hour. Credit, two or three hours.

461. Principles of Secondary Education. A course which considers the more fundamental principles operating in the organization, the curriculum, and the methods of teaching in our secondary schools. Credit, three hours. Dr. Gard.

465. Educational Tests and Measurements: High School. This course is similar to 267, except that the tests studied will be those used in connection with the senior high school subjects. Open to Juniors and Seniors. Four recitations a week. Laboratory fee, \$1.00. Credit, two hours. Dr. Class.

***470. Comparative Education.** A course based upon the study of national

*The course will be offered for which there is the greater demand.

school systems of Western Europe, educational organization and the school as a political and social instrument in the western nations. Open to Seniors. Credit, three to six hours, depending upon the amount and quality of work done. Dr. Gard.

***471. Philosophy of Education.** In this course an attempt is made to present the educational theories that are influencing modern educational practice. The contributions of Plato, Aristotle, Rousseau, Spencer, Herbart, and Froebel are given special consideration. In our own country the writings of Harris, Hall, James, Eliot, and Dewey are studied, as well as critical interpretations of the theories presented by these men. The course is designed to meet the needs of advanced students. Open to Seniors. Credit, three hours. Dr. Gard.

472. History of Secondary Education. This course considers the place of secondary education in the development of modern western civilization. The secondary schools of the United States, France, Germany and England are studied. Credit, three hours. Dr. Gard.

475. Seminar and Minor Research in Education. Students will be directed in the investigation of selected phases of educational theory and practice. Open to advanced students. Credit, two to six hours, depending upon the amount and quality of work done. Dr. Gard, Dr. Hansen, or Dr. Class.

485. School Administration. This is a general course in school administration treating the administration of schools from the viewpoint of the administrator and the board of education. The organization of state, county and city boards of education with their powers and duties constitutes the first part of the course. The work of the schools as seen by the principal and superintendent constitutes the remainder of the course. The course is open to Seniors who expect to engage in supervisory or administrative work. Credit, three hours. Dr. Morton.

486. Problems in School Administration. This is an advanced course treating intensively a few problems in school administration. The problems selected are determined by the interests of the students. Credit, two hours. Dr. Hansen or Dr. Sias.

487. High School Administration. This is a general course in the administration of the high school designed to meet the needs of students who expect to teach in the high school. The problems treated are taken up from the point of view of the high school teacher. Problems of school and class organization, discipline, grading, curriculum, extra-class activities and the like are treated from the teachers' viewpoint. May not be taken for credit by students who have had Course 285. Open to Juniors and Seniors. Credit, three hours. Dr. Benz.

491. The Supervision of Instruction. This is a theory course which deals with progressive methods of stimulating and guiding teacher-growth while in service. Administrative phases of supervision are given brief consideration. The burden of the course deals with democratic development of a supervision program with teachers in service in which methods of ascertaining needs, formulating the philosophy and principles underlying successful classroom teaching are studied. Techniques for improving instruction, (a) observation, (b)

*The course will be offered for which there is the greater demand.

professional study, (c) conference, and (d) curriculum-making are considered. A minimum amount of practical work is given as a background for considering supervisory problems. Open to Seniors and graduates who are preparing for elementary supervision, elementary principalships, or the work of the superintendent. Credit, three hours.

493. Vocational Guidance. This course will deal with the various phases of educational and vocational guidance. Open to Juniors and Seniors. Credit, two hours. Dr. Sias.

495. Training School Problems. This course is intended for critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. The following topics are representative of those which will be considered: the integration of theory and practice; the duties of a training teacher; induction of student teacher into teaching responsibility; conferences of training teachers with student teachers; the rating of student teachers; and demonstration teaching.

It is desired that where possible the student should take this course during the same semester that he takes the Supervisory Practice Course. Many of the problems which the student will actually encounter in that course will be appropriate problems for discussion in this course. Open to graduate students and Seniors who have had successful teaching experience. Credit, two hours. Dr. Class.

OBSERVATION AND STUDENT TEACHING*

231. Observation and Participation: Kindergarten-Primary. This course should be taken in conjunction with the course in Student Teaching, Kindergarten-Primary 233, with a total of seven hours credit. It may be taken alone by special permission of the Dean of the College of Education. The problems and topics for class discussion will grow out of the work observed. The course will involve a thorough acquaintance with the activities of the Kindergarten, the use of equipment and materials, and the planning of the work to meet the needs of the children. Credit, three hours. Dr. Sias.

232. Observation and Participation: Intermediate Grades. This course should be taken in conjunction with the course in Student Teaching, Intermediate Grades 234, or Special Education 237, with a total of seven hours of credit. It may be taken alone by special permission of the Dean of the College of Education. The problems and topics for class discussion will grow out of the classroom work. The course will involve a thorough acquaintance with the activities of the classroom, use of equipment and materials, and the planning of work to meet the needs of the children. Credit, three hours. Dr. Sias.

233. Student Teaching: Kindergarten-Primary. Students who are in Kindergarten-Primary Education do their student teaching in both the kindergarten and the primary grades. Student Teaching 233, four hours credit, should be taken in conjunction with Observation and Participation, Kindergarten-Primary 231, three hours credit, making a total of seven hours. Students who are preparing to teach in the primary grades should take Student

*All students who are eligible to do student teaching should make application during the previous year and must present themselves to the Director of Teacher Training for definite assignment on the first day of registration for the Summer Session.

Teaching 233 combined with Observation 231 in either the first or the second grade in one session. In another session they take 233a, two hours credit, in the kindergarten. Students who are preparing to teach in kindergarten should take Student Teaching 233 combined with Observation 231 in the kindergarten, and in another session take 233a, two hours credit, in either the first or the second grade. Students are expected to share with the supervising critic the responsibilities of the classroom and become an integral part of the life of the group with which they work. Credit, four hours. Dr. Sias.

233a. Student Teaching: Kindergarten-Primary. This course in student teaching is taken by the students in Kindergarten-Primary Education in a different session from that in which they take Student Teaching 233, following the plan indicated under 233. Students will participate one hour daily in the activities of the classroom and will attend conferences with the supervising critic. Laboratory fee, \$2.00 per credit hour. Credit, two hours. Dr. Sias.

234. Student Teaching: Intermediate Grades. This course should be taken in conjunction with the course in Observation and Participation, Intermediate Grades, 232, with a total of seven hours of credit. It may, however, be taken separately if Observation has already been completed. Students are expected to share with the supervising critic the responsibilities for the work of the classroom and become an integral part of the life of the group with which they work. Laboratory fee, \$2.00 per credit hour. Credit, four hours. Dr. Sias.

237. Student Teaching: Special Education. This course affords an opportunity for student teaching in special classes under supervision and criticism. The work should be taken in conjunction with Observation and Participation, 232. Laboratory fee, \$2.00 per credit hour. Credit, four hours. Dr. Sias and Mrs. DeLand.

430. Advanced Student Teaching: Kindergarten-Primary. This course is for seniors who are taking a four-year course with a major in Kindergarten-Primary Education. The student will teach one or two hours daily for one semester. The course will be characterized by careful evaluation of the results of the student's teaching and frequent conferences with supervisors. Laboratory fee, \$2.00 per credit hour. Credit, two or four hours. Dr. Sias.

431. Advanced Student Teaching: Intermediate Grades. This course is for seniors who are taking a four-year course with a major in Elementary Education. The student will teach one or two hours daily for one semester. The course will be characterized by careful evaluation of the results of the student's teaching and frequent conferences with supervisors. Laboratory fee, \$2.00 per credit hour. Credit, two or four hours. Dr. Sias.

432. Observation and Participation: Junior-Senior High School. This course or its equivalent should be taken as a prerequisite for, or during the same semester as, Student Teaching, Junior-Senior High School, 433. This course is devoted to observation of the work of the secondary school with participation in the class activities for the various types of teaching. The student becomes acquainted with the school, pupils, teachers, and with the physical features of the teacher's work as specific preparation for student teaching. Credit, three hours. Dr. Sias.

433. Student Teaching: Junior-Senior High School. This course is for

the student who is in the senior year of a four-year course directed toward Junior or Senior High School teaching, and who has met the requirements of the College of Education for student teaching including Observation and Participation, 432. It is expected that the student will teach in the department in which he has his major. The student should secure the recommendation of the head of the department in the University in which he wishes to do student teaching. Blanks for this purpose may be secured at the office of the Director of Teacher Training. Laboratory fee, \$2.00 per credit hour. Credit, four hours. Dr. Sias.

434. Observation and Participation: Special Departments. This course is intended for students majoring in Art, Commerce, Home Economics, Industrial Education, Music, or Physical Education. The observation in Commerce and Industrial Education will be taken in the secondary schools, using the same plan that is followed by those observing in course 432. In Physical Education the time will be equally divided between the elementary and secondary fields. In Art and Music the time in observation is given largely to the work in the elementary field. The student will observe in the field of his major interest primarily. Limited observation in other fields may be provided in some cases in order to give the student some familiarity with teaching procedures in these fields. The chief purpose of this course is to give specific preparation for Student Teaching in the special field. This course, or its equivalent, should be taken as a prerequisite for, or during the same session as the course in Student Teaching in Special Departments, 435. Credit, three hours. Dr. Sias and Departmental Supervisors.

435. Student Teaching: Special Departments. This course includes student teaching in either Art, Commerce, Industrial Education, Music, or Physical Education.

Student teaching in Art is open to students having credit in advanced design, art structure, methods of teaching art and observation of art teaching.

Student teaching in Music is open to seniors in the Music Education Department who have completed Music Observation 434, and who have had ample preparation in music.

Student teaching in Physical Education for men and women includes student teaching in the elementary and secondary schools and playground work and should be preceded by Observation and Participation, 434, in Physical Education. Laboratory fee, \$2.00 per credit hour. Credit, two or four hours. Dr. Sias and Departmental supervisors.

ELECTRICAL ENGINEERING AND PHYSICS

101-102. This Physical World. This course is an attempt to acquaint the student in an elementary and descriptive way, and without any mathematics, with the principles underlying nature's activities; their relation to man's needs and interests; and how they are applied in the development of those devices and conveniences which, beginning as luxuries, have become necessities in modern life.

These courses are available for those who need three or six hours in the physical science requirement. Not open to those having had physics or chemistry in college. Credit, for each course, three hours. Mr. McClure.

104. Introduction to Physics. Class discussions, demonstrations, and

problems on the topics of electricity, magnetism, sound and light. Arranged for those with or without a high school course. This course applies on the pre-medical requirements, or the general college requirement of six hours of physical science; also for high school teachers and others desiring a somewhat more thorough course, though still elementary. One hour daily. Credit, three hours, or with Course 104a, four hours. Mr. Atkinson.

103a-104a. Introduction to Physics Laboratory. Corresponding to the class course 104 given this summer, and to 103 given last summer. Fifteen well-chosen experiments in each course. Two two-hour laboratory periods each week. Laboratory fee, \$3.00. Credit, for each course, one hour. Mr. Atkinson.

106. Elementary Radio. At the present time there is a widespread interest in radio telephone communication, and among those who own radio sets or who expect to own them, and among those, as well, who merely "listen in" occasionally, there are many who wish to know more of the "why" and the "how" of those mysterious waves which so completely occupy the ether through the night and the day hours. To all such this popular course is offered.

The course considers in an elementary way the apparatus for reception, the methods in practice, and the fundamental principles involved in radio reception of speech and music. Also a brief consideration is given to methods and principles of transmission.

Some of the particular subjects covered are: the simple receiving circuit; action of crystal detectors; a study of the construction and operation of the vacuum tube; amplifying speech or music; regenerative and heterodyne reception; neutralization; operation of radio sets directly from the house lighting circuit. Credit, two hours. Mr. McClure.

106a. Radio Laboratory. Designed to show the practical application of the principles discussed in Course 106. The work includes the construction and operation of at least one set. Measurements of wave length, calibration of a wave meter, determining the working characteristics of both crystals and vacuum tubes, etc. It is advisable to take this course at the same time as the theory course. Two two-hour laboratory periods a week. Laboratory fee, \$3.00. Credit, one hour. Mr. McClure.

304. Methods in Physics. A course in the teaching of physics. Recitations and discussions on the value of physics as a study, and on its place in the curriculum; objectives in teaching physics in the high schools; selection of subject matter and order of treatment; method of approach in teaching beginners; the place of class demonstrations and the selection of proper apparatus; the relative importance of laboratory work and the type of experiments to be used; the organization of the laboratory, the planning of the course, and the selection and purchase of equipment. Students should have had at least one course in physics. Credit, two hours. Mr. Atkinson.

305. General Physics. This is the first half of the Sophomore course in college physics. It covers the subjects of mechanics and heat. Prerequisites, Mathematics 101, 101a, 108. Credit, three hours. Mr. McClure.

305a. General Physics Laboratory. A course of laboratory experiments corresponding to the Course 305. Laboratory fee, \$3.00. Credit, one hour. Mr. McClure.

339 or 340. Engineering Relations. These are the first and second semester courses in engineering management, regularly given in the Senior year. They cover (a) historical relations; (b) legal responsibilities; (c) public relations—spread of knowledge, good service, good will, reasonable rates; (d) internal relations—physical set-up, financial structure, special problems of management; (e) the human problems in engineering—the principles growing out of experience in organizing men in power enterprises, providing for their comfort, convenience and safety, so as to secure better personal relations and more efficient performance. Open in the summer to anyone who has had two years of college work.

Given in the summer to permit an engineering student to reduce his regular year schedule. One or the other of the numbers will be chosen, depending on the size of the class and other circumstances. Credit, two hours. Mr. Atkinson.

ENGLISH LANGUAGE AND LITERATURE

201. English Composition. Required in the College of Education. Emphasis is placed upon practice in composition and upon methods of teaching the subject. Credit, three hours. Dr. Heidler.

202. English Composition. Required in the College of Education. A continuation of Course 201. Credit, three hours. Dr. Caskey.

204. English Poetry. A study of the poetry from 1798 to 1890. Credit, three hours. Miss Hand.

205. American Prose. Selected material from Franklin, Poe, Hawthorne, Emerson, Thoreau, Lowell, and Holmes. Credit, three hours. Dr. Heidler or Miss Hand.

206. English Essay. Material is selected from the representative English essayists of the Victorian period. Credit, three hours. Dr. Caskey.

208. Juvenile Literature. A study of the literature suitable for the middle grades. A discussion of methods. Credit, two hours. Miss Kahler.

226. The Teaching of Language in the Middle Grades. A study of the content and presentation of composition, grammar, and spelling in grades three to six. Credit, two hours. Dr. Foster.

304. Survey of English Literature. A history of English literature from 1744 to the present day. The emphasis of the course is on the historical development and the types of English literature. Credit, three hours. Mr. Peckham.

306. Shakespeare. A study of the great tragedies. Credit, three hours. Mr. McQuiston.

307s. Modern American Literature. A survey of American literature since 1870. Not open to those who have had Course 307 or 308. Credit, three hours. Mr. McQuiston.

314. Modern Drama. A reading and discussion of modern and contemporary plays. Among the dramatists considered are: Barker, Synge, Fitch, Moody, Hauptmann, Sudermann, Brieux, Strindberg, Maugham, Drinkwater, Ervine, Walter, Schnitzler, d'Annunzio, and Gorki. Open to Juniors and Seniors. Credit, two hours. Mr. Peckham.

322s. Tennyson and Browning. A rapid survey of Tennyson's work in

general, followed by a study of *In Memoriam*. A study of some of the most representative poems of Browning. Credit, three hours. Mr. Peckham.

326. The Short Story. A historical and critical study of the short story. Credit, two hours. Mr. McQuiston.

405. Contemporary American Poetry. A study of some of the representative works of Robinson, Sandburg, Frost, Amy Lowell, Masters, Lindsay, and others. Open to Juniors, Seniors, and Graduates. Credit, two hours. Dr. Foster.

406. Romanticism in American Literature. A study of the romantic movement as exemplified in American fiction. Open to Juniors, Seniors, and Graduates. Credit, two hours. Dr. Foster.

408. Methods of Teaching English Composition in the Junior and Senior High Schools. Open to Juniors and Seniors. Credit, two hours. Miss Hand.

409. Literary Appreciation. A study of the nature of poetry and poetical forms. Open to Juniors, Seniors, and Graduates. Credit, two hours. Dr. Wilson.

414. Literary Biography. A study of some of the important literary biographies and a discussion of tendencies in current biographical literature. Open primarily to Juniors, Seniors, and Graduates. Credit, two hours. Dr. Wilson.

415. Eighteenth Century Literature. A study of some of the prose and poetry from the beginning of the period through the age of Pope. Open to Juniors, Seniors, and Graduates. Credit, two hours. Dr. Wilson.

GEOGRAPHY AND GEOLOGY

The location of Ohio University and its surrounding geographical environment are especially well adapted to the teaching of Geography and Geology. Hills, rivers, rocks, caves, mines, factories, and soil conditions make many practical field trips possible.

203. Geography and Environment. A practical and cultural course which develops the relationship and adjustment of man to his geographic environment. When followed by any other course in geography except the methods courses, it fulfills the science requirement in the four-year courses of both the College of Education and the College of Arts and Sciences. Juniors and Seniors, or previous work in college geography. Credit, three hours. Dr. Cooper.

207. Geography and Methods for Upper Grades. A general course in methods for teaching and in professionalized subject matter such as is used from the sixth grade through the senior high school. Credit, three hours. Dr. Cooper.

209. Geography of South America. A course which will develop a method for teaching the geography of a continent as well as supply the necessary knowledge of content. Credit, three hours.

214. Geography and Methods for Lower Grades. A general course in methods and professionalized subject matter as used from grades one to five inclusive. Credit, three hours. Miss Atwood.

401. Geography of Ohio. The geography of Ohio will be developed from the regional point of view. Primarily for Juniors and Seniors. Credit, two hours. Dr. Cooper.

403. Weather and Climate. A thorough understanding of weather and climate is necessary for the appreciation of the adjustments of man to his environment. Credit, three hours.

404. Geography of Asia. This course develops in detail the geography of the environment and natural resources of Asia. The method of study is particularly valuable to teachers. Credit, three hours. Miss Atwood.

408. Research in Geography. Problems in Geography are assigned to majors in the Department. Credit, one to two hours. Dr. Cooper.

409. Geology, Physical. A cultural and practical course in Physical Geology. Credit, three hours.

412. Political Geography. A study of the geography of boundary lines the geography of colonial policies, and of geographic principles which control international relations. Credit, three hours. Miss Atwood.

416. Cartography and Graphics. Laboratory work in map drawing and graph making. Credit, one to two hours. Dr. Cooper.

GERMAN

***101s. Beginning German.** This course covers the work of the first semester of German in Ohio University. It affords instruction in the fundamental principles of grammar, drill in pronunciation, conversation, and the reading of easy German prose. Credit, three hours. Mrs. Matthews.

***102s. Beginning German.** Continuation of Course 101. This course is designed for those who have had one semester's work in German at the University, or one year in high school. It comprises a thorough review of German grammar and pronunciation, a considerable amount of reading, and some conversation. Credit, three hours. Mrs. Matthews.

303s. Intermediate German. This course is planned for students who have had one year or one and one-half years of college German, or two or more in the high school. It will be of such a nature as to fit the needs of those desiring either semester of second year German in Ohio University, and will not duplicate other courses given previously. Systematic training will be given in pronunciation, reading, translation, and formal composition. Credit three hours. Mrs. Matthews.

320. Advanced German Prose. Open to students who have had two or more years of college German. Literary and historical essays will be read. This course is especially valuable for students majoring in German or in history, or science. Credit, two hours. Mrs. Matthews.

HISTORY AND GOVERNMENT

101. Medieval European History. Open to all students. An introductory course. Credit, three hours. Dr. Volwiler.

102. Modern European History. Open to all students. Credit, three hours. Mr. Jones.

201. American History. The political, social, and economic development of the United States from the colonial period through the Civil War. Credit, three hours. Mr. Hoover.

*The course in larger demand will be given.

202. American History. Continuation of Course 201, with special emphasis on recent history of the United States. Credit, three hours. Miss Field and Mr. Morrison.

204. American Government. The organization and administration of the state and local governments, with the Government of Ohio used for purposes of illustration. Credit, three hours. Dr. Smith.

211. Teaching History in Elementary Schools. The development of history instruction in the schools; the objectives and outcome; methods of instruction; materials for the several grades; testing results; school problems related to history teaching. Credit, two hours. Dr. Smith.

214. The New South. The purpose of the course is to give an intimate understanding of life and labor in the South since the Civil War: geography and natural resources; origins of the people; agricultural progress; the Appalachian highlander and his homeland; industrial development; labor conditions in home, farm, and factory; special problems of white and black; education and progress; and overview of the various states since 1919. Credit, three hours. Mr. Morrison.

215. The United States since 1918. A course having for its content present-day affairs primarily. Various phases developed are: historical backgrounds to give an understanding of factors underlying these problems; an intimate acquaintance with the best periodicals and newspapers; an acquaintance with the characteristics of propaganda and methods of determining facts. Practical training in organizing and presenting facts will be given in connection with a news sheet prepared by the class. The laboratory type of procedure will be followed. Credit, three hours. Mr. Morrison.

311. English History During the Tudor Period. The consolidation, the establishment of the Church of England, maritime expansion, and the literary outburst will be studied. An excellent background for American History. Credit, two hours. Mr. Jones.

313. French Revolution and Napoleonic Era, 1789-1815. The transition from the old privileged system to a state controlled by the people, the extreme measures to bring about this change and the rise and fall of the world's greatest military genius. Credit, three hours. Mr. Jones.

317. International Cooperation and Organization. The origin and work of the League of Nations, the World Court, the International Labor Organization, the Universal Postal Union, the International Bureau of Telecommunication Union, the Institute of Intellectual Cooperation, and other similar organizations. Open to Sophomores, Juniors, and Seniors. Credit, three hours. Dr. Volwiler.

408. American Statesmen. A study of the lives of leading American statesmen. Credit, two hours. Mr. Hoover.

410. The Emergence of Modern America, 1877-1900. Social and intellectual conditions; political changes; agrarian unrest; rise of large corporations; railroad building; development of government regulation of big business; tariff policies during the Harrison-Cleveland Era; the Spanish-American War; drift to imperialism and world power. Open to Sophomores, Juniors, and Seniors. Credit, three hours. Dr. Volwiler.

412. Teaching History in Junior and Senior High Schools. The develop-

ment of history instruction; objectives; selection and organization of materials; types of work; history tests; relation of history to other social subjects; some problems of teaching history. Credit, two hours. Dr. Smith.

416. History of Ohio. A survey of the history of Ohio from the settlement and early development to the present time. Credit, two hours. Mr. Hoover.

427-428. Research in American History and Government. A course for graduate students, including a consideration of problems related to history and government, the sources of information, the treatment of materials, and preparation of a thesis. Credit, one to three hours. Dr. Smith.

HOME ECONOMICS

The work of the Department of Home Economics is planned primarily for teachers in the elementary and secondary schools, and for those who wish to prepare for adult educational work in the field of business. Those who graduate from the course may prepare for dietitian service in three to six months' additional training in hospitals. The suggested course in Institutional Management offers preparation for commercial work in tea rooms, restaurants and school dormitories.

202. Foods and Nutrition. Preparation of food and study of food combinations. Value of typical foods in the diet. Energy, protein, mineral and vitamin requirements of body are considered. Consideration of cost in relation to food value. Planning, preparation and serving of well balanced meals. Social customs in relation to serving food. Laboratory fee, \$2.00. Credit, four hours. Miss Patterson.

252. Textiles and Consumer Buying. One hour lecture and two hours laboratory. Study of textiles as to fibre, manufacture, and use. Hand loom weaving. Laboratory fee, \$1.00. Credit, three hours. Miss Morse.

411. Problems in Teaching Home Economics. This course will include the study of objectives and aims in home making education. Consideration will be given to the organization of work for reaching these objectives; the evaluation of methods of teaching as applied to home economics; the measurement of the results of instruction and standards in regard to equipment, its care, arrangement, and influence upon organization and method. Credit, two hours. Miss Patterson.

415. Quantity Cookery. Practice given in handling foods in quantities. Institutional and commercial problems considered. Field work in college dormitories and cafeterias and in institutions cooperating with the college in offering supervised practice. Credit, three hours. Dr. Phillips.

417. Home Management. Practical problems involving the use of time, energy, and money as economical and social factors in personal and home living are based upon experience in the home management house. Credit, four hours. Dr. Phillips.

418. Economics of Consumption. This course will include a study of consumer buying problems; family income and expenditure; economic relations of the household; expenditures as measures of standards of living, consumer demand; and the effects of consumption on such factors as utility, custom, fashion, education, business and the economic welfare of society. Opportunity

will be given for special study in the field of major interest and for the application of the results of these studies to practical consumer problems. Credit, three hours. Dr. Phillips.

422. Dietetics. A study of the fundamental principles of nutrition with special emphasis upon the nutritive value of foods and the four main factors of nutritive requirements of man,—energy, protein, mineral elements, and vitamins. The course includes practical application of these principles to the feeding of individuals and families under varying physiological economic and social conditions. Laboratory fee, \$2.00. Credit, three hours. Dr. Phillips.

457. Economics of Clothing. One hour lecture, two hours laboratory. Study of clothing of today relative to market quality, method of making, cost, fashion trend. Problems in drafting block pattern and in construction of garments from wool and silk. Laboratory fee, \$1.00. Credit, three hours. Miss Morse.

459. Home Planning. Practical applications of the principles of design and sanitation and of the theory of color are employed in studying the problems of planning and furnishing homes which fit our social and economic needs. Laboratory fee, \$1.00. Credit, three hours. Miss Morse.

465. Child Development. Two hour lecture, four hour nursery-school observation. A study of the development of the child (physiological development and the development of behavior) with reference to the problems of parents. The means of efficiently meeting parental responsibility in the care and guidance of children in the home is stressed. The course includes observation of, and experience with, children in the nursery school. Credit, three hours. Miss Snyder.

469. Special Problems. Students select special problems for individual research under the supervision of a member of the staff. The work of the course will be devoted to the planning, executing, and testing of results of individual problems of research. The results of these problems are usually embodied in the Master's degree thesis. Open to graduates and to Seniors majoring in the department with the permission of the professor. Credit, three to fifteen hours. Dr. Phillips and members of the departmental staff.

INDUSTRIAL EDUCATION

201. Wood Working. Class and laboratory work. A study of tool problems, and methods of presenting elementary wood work. Six double periods a week. Laboratory fee, \$1.00. Credit, three hours. Mr. Grones.

202. Wood Working. A continuation of 201. Six double periods a week. Laboratory fee, \$1.00. Credit, three hours. Mr. Grones.

206. Wood Turning. Laboratory course. Practice in various types of turning. Six double periods a week. Laboratory fee, \$1.00. Credit, two hours. Mr. Kinison.

209. Cabinet Making. Laboratory course. For advanced students or those who have had some experience in hand tool work. Two hours daily. Six days a week. Laboratory fee, \$1.00. Credit, three hours. Mr. Grones.

210. Cabinet Making. Laboratory course. A continuation of 209. Laboratory fee, \$1.00. Credit, three hours. Mr. Grones.

216. Constructive Design. The object of this course is to give the student practice in free hand sketching, so essential to the Industrial Arts teacher. This is practiced both at blackboard and on paper. Originality is stressed in the designing and studying of projects. Also a study of the outstanding periods and master designers is made. Credit, two hours. Mr. Grones.

227. Sheet Metal Work. Recitation and laboratory, ten hours. The problems of this course deal with the cutting, forming, soldering, and riveting of materials used in sheet-metal construction. The development of sheet-metal patterns is an important phase of the work of this course. Laboratory fee, \$1.00. Credit, two hours. Mr. McLaughlin.

230. General Shop. Class and laboratory six hours. The following shop activities will be represented: wood work, metal work, electricity, plumbing and cement. These four activities will be carried on in one shop, at the same time and under one instructor. Laboratory fee, \$1.00. Credit, two hours. Mr. Kinison.

412. Shop Methods and Equipment. Class work. A detailed study of arrangement, care, treatment and buying of industrial education equipment and supplies. Credit, two hours. Mr. McLaughlin.

420. Methods of Teaching the Manual Arts. Class work. A study of shop room methods, lesson plans, problems and equipment. Six recitations a week. Credit, three hours. Mr. McLaughlin.

440. Printing. Class and laboratory, twelve hours. Practice in the setting of type, imposition, proofreading, correction of proofs, and the operation of presses. Class work includes a study of the history of printing, the manufacture of paper, the kinds of paper stock, printers' inks, type faces, and typographic design. Laboratory fee, \$1.00. Credit, three hours. Mr. Kinison.

441. Printing. Class and laboratory, ten hours. A continuation of Course 440. Laboratory fee, \$1.00. Credit, two hours. Mr. Kinison.

JOURNALISM

335. Reporting Practice I. Problems of gathering and writing news under actual newspaper conditions will be met by students who will be assigned to general reportorial work on *The Athens Messenger*. Hours will be arranged for each individual after permission to enter the course is secured. Credit, two or three hours. Mr. Smiley.

336. Reporting Practice II. This may be elected only by students whose work in Reporting Practice I has been satisfactory. A student will be permitted as far as possible to specialize in the particular field of reporting he desires. Credit, two or three hours. Mr. Smiley.

337. Reporting Practice III. Prerequisite, Course 336. Credit, two hours. Mr. Smiley.

351. Editing Practice I. Students will be assigned for copyreading on *The Athens Messenger*. Hours will be arranged for each individual after permission to enter the course is secured. Credit, two or three hours. Mr. Harris.

352. Editing Practice II. Students will be assigned for advanced copyreading on *The Athens Messenger*. Hours will be arranged for each individual

after permission to enter the course is secured. Credit, two or three hours. Mr. Harris.

MATHEMATICS

101. College Algebra. A short review of factoring, fractions, simple equations, theory of exponents, followed by the theory of quadratic equations, progressions, infinite series, and the theory of equations. Credit, three hours. Dr. Reed.

101a. Plane Trigonometry. The definitions of the trigonometric functions and the relations among them; the addition theorems, functions of the double and half angles; computations with logarithms and the solutions of oblique triangles. Courses 101 and 101a are to be taken together except in cases where credit has already been secured in one of them. Credit, two hours. Dr. Reed.

105. College Geometry. This course is an extension of the geometry ordinarily given in the high school, and includes a development of modern geometry. It provides excellent training for those intending to teach mathematics in high school, and a discipline of value to any student of mathematics. The only prerequisite is high school geometry. The subject matter comprises problems of construction, geometric loci, similar and homothetic figures, and poles and polars. Credit, three hours. Dr. Reed.

207. Teaching Arithmetic in the Primary Grades. In this course consideration is given to methods of teaching the subject matter of the Arithmetic curriculum in grades one, two, and three. The results of experimental studies and of recent developments in Educational Psychology are incorporated. Credit, three hours. Dr. Morton.

209. Teaching Arithmetic in the Intermediate Grades. This course deals with methods of presenting the subject matter of the Arithmetic curriculum in grades four, five, and six. It includes the result of experimental investigations. Standardized tests and mechanical drill devices are briefly treated. Credit, three hours. Dr. Benz.

404. Teaching Mathematics in the Junior High School. The development of a course of study that shall provide for the completion of Arithmetic and an introduction of Elementary Algebra, Plane Geometry and a few fundamental principles of Trigonometry is provided for. The main emphasis of the course however, is upon methods of teaching Mathematics in the junior high school. Credit, three hours. Dr. Benz.

409. Statistics. Advanced students in Education and Psychology are frequently called upon to organize and interpret large groups of quantitative data. The purpose of this course is to present effective methods of dealing with statistics. The department is equipped with an electrically driven calculating machine, sets of calculating tables, logarithmic tables, a small reference library and an adding machine. Credit, three hours. Dr. Morton.

MUSIC

103. Freshman Harmony. Formation of major and minor scales; intervals, triads and their relations in close and open positions; harmonizing of

melodies; inversions, cadences, sequences, passing and auxiliary notes; original work. Credit, two hours. Mr. Kresge.

104. Freshman Harmony. Continuation of Course 103. Credit, two hours. Mr. Kresge.

Of the two courses in Freshman Harmony, the one meeting the greater demand will be given.

113. Music History. General development of music in all its phases from the primitive and ancient peoples through the polyphonic period; the classic music of the eighteenth century. The different types and styles of music are illustrated by members of the class and the victrola. Frequent incidental reports of contemporary music are given. Credit, two hours. Mrs. Benedict.

114. Music History. Study of the music of the nineteenth and twentieth centuries; Romanticism, Impressionism, and tendencies of the present day; survey of agencies for musical advancement in America; supplementary reading in current magazines. Illustrations in class. Credit, two hours. Mrs. Benedict.

Of the two courses in Music History, the one meeting the greater demand will be given.

201. Music Fundamentals. A fundamental course in music involving elementary theory, ear training, tone production, and sight singing. Class, eight hours a week. Laboratory fee, \$1.00. Credit, two hours. Mr. Thackrey.

204. Ear Training and Sight Singing II. For students majoring in the Department of School of Music. Class, six hours a week. Credit, two hours. Miss Brown.

211. Music Methods for Grade Teachers. This course is designed for those who plan to teach in the elementary schools, and is not open to majors in the department. Class, four hours a week. Credit, one hour. Miss Blayney.

221. Music Appreciation. For majors in the department of Music Education. Gives the student a musical background and considers the presentation of appreciation work in both elementary and high schools. Class, six hours. Credit, three hours. Miss Brown.

227. Campus Orchestra. A laboratory course designed for instrumental majors but open to any student on the campus who meets the requirements of the try-out. It provides practice for students who aim for increased facility in ensemble work. Credit, one hour. Mr. Ingerham.

311. Analysis and Form. Detailed structural and harmonic analysis of musical compositions; monophonic and polphonic analysis. Material used: *The Hymnal*, *Songs Without Words*, etc. Prerequisite, Course 103-104, or the equivalent. Credit, two hours. Mr. Robinson.

312. Analysis and Form. Continuation of Course 311. Credit, two hours. Mr. Robinson.

Of the two courses in Analysis and Form, the one meeting the greater demand will be given.

406. Conducting II. A continuation of Course 405. Choral and orchestral material suitable for use in elementary and high schools is considered. The theory and practice of conducting. Organizing and conducting of choruses, glee clubs, orchestras, and bands will be topics for discussion. Class, four hours a week. Credit, two hours. Mr. Thackrey.

408. Music Methods for Junior and Senior High Schools. A course for juniors in the Department of Music Education. Principles of music education as they relate to pupils of high school age. Administrative and supervisory problems. Class, six hours. Credit, three hours. Miss Blayney.

415. Music Systems. A comparative study of the various music systems in general use. Class, two hours. Credit, one hour. Miss Blayney.

431. Methods of Instrumental Instruction. A study of class methods employed in the teaching of stringed, brass, and woodwind instruments. Problems of School orchestras and bands, and of instrumentation. Class, six hours. Credit, three hours. Mr. Ingerham.

Band Instruments. Private instruction in woodwind and brass instruments according to the individual ability of the student. Credit, one hour for two lessons a week. Mr. Janssen.

Choral. Open to any student who is qualified vocally to participate. Program material includes Chorales, Madrigals, and other Choral forms. Application for membership in the Choral should be made to Professor Robinson on registration day.

Organ. Private instruction in organ for those having the required proficiency in piano. Credit, one hour for two lessons a week. Mr. Kresge.

Piano. Private instruction in pianoforte according to the individual ability of the student. Credit, one hour for two lessons a week. Mr. Kresge or Mr. Longstreet.

Summer Session Band. Open to any one who can meet the technical requirements of his chosen instrument. Application for membership in the Summer Session Band should be made to Professor Robinson on registration day.

Violin. Private instruction in violin according to the individual ability of the student. Credit, one hour for two lessons a week. Mr. Ingerham.

Voice. Private instruction in all phases of voice culture, repertoire, etc. Credit, one hour for two lessons a week. Mr. Robinson or Mrs. Benedict.

Practice hours in Organ, Piano, Band Instruments, and Voice should be secured from Professor Robinson at registration time.

PHILOSOPHY

301. General Ethics. A general course in Ethics in which the student is introduced to the main historical ethical philosophies of life as developed by the great thinkers and moralists. Study is made of the values, right, duties, and virtues that are most important. Part of the course is given to class discussion of the chief personal and social problems of present-day life. The course emphasizes the idea of values, so important in current philosophy, and aims to develop a constructive view of personal and social morality. Open to Sophomores, Juniors, and Seniors. Credit, three hours. Dr. Gamertsfelder.

303. Introduction to Philosophy. An elementary treatment of the chief problems of philosophy. Such questions as the following will be discussed: the meaning of philosophy, its relation to the sciences, to religion, and to life, the nature of knowledge and experience, God, the soul, good and evil, human freedom, and immortality. An introductory acquaintance will also be sought with

such important present-day philosophies as evolutionism, realism, materialism, and pragmatism. The course is meant to introduce the student to the most interesting features of serious human thought and to put him in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. Open to Sophomores, Juniors, and Seniors. Credit, three hours. Dr. Gamertsfelder.

PHYSICAL EDUCATION

Men

201. Freshman Physical Education. (For Majors only.) This course is arranged for those with a major in physical education. The purpose of the course is to present methods and material for teaching a natural program in physical education. Laboratory fee, \$1.00. Credit, one hour. Mr. Grover.

203. Sophomore Physical Education. Theory and practice. (For Majors only.) This course is a continuation of 202, with emphasis placed on individual and team instruction. The content embraces instruction and practice in soccer, speedball, playground ball, handball, track and field athletics, tennis, volleyball and basketball. Testing and grading results will also be included. Laboratory fee, \$1.00. Credit, one hour. Mr. Trautwein.

204. Sophomore Physical Education. Theory and practice. (For Majors only.) This course is a continuation of 203. The course takes up the various systems of formal gymnastics and marching and offers the student an opportunity of teaching these subjects. Laboratory fee, \$1.00. Credit, one hour. Mr. Grover.

405. Physical Education Practice. Graded games of low organization, mass athletics, individual and self-testing activities. Laboratory fee, \$1.00. Credit, one hour. Mr. Herbert.

409. Physical Education Practice. Advanced apparatus work, rhythmic drills with light apparatus and pyramids. A study of the physical education exhibition will also be included. Laboratory fee, \$1.00. Credit, one hour. Mr. Herbert.

415. Athletic Training. This course is concerned with the administration of first aid, and emergency treatment of common athletic and other injuries. Emphasis is also placed on those problems concerned with the safeguarding of the health of participants in elementary, secondary school, and college athletics. Credit, two hours. Mr. Herbert.

416. Methods in Coaching. Coaching of basketball. Four-week Session. Credit, two hours. Mr. Grover.

417. Methods in Coaching. Coaching of football. Four-week Session. Credit, two hours. Mr. Peden and Mr. Trautwein.

418. Methods in Coaching. Coaching of baseball. Four-week Session. Last four weeks of regular summer session. Credit, one hour. Mr. Peden.

420. Methods in Coaching. Coaching of track athletics. Credit, one hour. Mr. Herbert.

423. Swimming. Includes life saving and fancy diving. Credit, one hour. Laboratory fee, \$1.00. Mr. Herbert.

Men and Women

207. Physical Education Methods. A course dealing with methods in physical education for elementary and secondary schools. Credit, one hour. Required of all two-year students. Not required of majors. Mr. Bird.

281. Principles of Health. This course deals with personal, school, and community health; is designed especially for teachers to assist them in carrying out health educational programs in their schools. It is open to two-year course students. Credit, three hours. Miss Druggan.

293. The Teaching of Health. This course is concerned with the methods of teaching health in schools and colleges. Last four weeks of regular summer session. Credit, two hours. Mr. Herbert.

411. History and Principles of Physical Education. A study of the development of physical education in different nations and their contributions to our present-day methods. The relationship of objectives of physical education to other phases of education and to health and character training. Credit, two hours. Miss Hatcher.

412. Theory of Play and Games. This is a study of the important theories of play. Play programs for schools, recreation centers, and playgrounds. Latter part of course devoted to the practice of games. Two sections, one four-week session, one eight-week session. Credit, two hours. Mr. Bird.

422. Organization and Administration. Physical Education in elementary and secondary schools, colleges and normal schools; athletic management; intramural, interscholastic, and intercollegiate athletics. Credit, two hours. Four-week Session. Mr. Bird.

493. School Health Service. This course is concerned with the health examination of the school child, morning health inspection, the follow-up of these two, hospital and dispensary service, etc. Credit, three hours. Miss Druggan.

Women

203. Sophomore Physical Education. (For majors and minors.) A continuation of sports technique; folk dancing; squad work in self-testing activities; track and field. Six hours a week. Laboratory fee, \$1.00. Credit, one hour. Miss Mee.

261s. Swimming for Women. Instruction according to the student's ability. This course may be substituted for either 261 or 262. Three hours a week. Laboratory fee, \$1.00. Credit, one hour. Miss Mee.

263. Sophomore Physical Education. Swimming. Three hours a week. Laboratory fee, \$1.00. Credit, one hour. Miss LaTourrette.

415. First Aid and Massage. Consideration is given to theory and practice of first aid and massage. Some emphasis is placed upon the treatment of athletic injuries and the student is eligible to take the First Aid examination as given by the American Red Cross. Credit, two hours. Miss Mee.

417. Methods in Coaching. Theory and practice of coaching volley ball and basketball. Credit, two hours. Miss Hatcher.

418. Methods in Coaching. A continuation of Course 417 including

soccer, baseball, track and field activities. Credit, two hours. Miss LaTourrette.

427. Mass Games. Team games of low organization and mass activities. Required of major students. Laboratory fee, \$1.00. Credit, one hour. Miss LaTourrette.

443s. Methods in Teaching Physical Education Activities. (A summer session substitute for 441 and 442.) A study of the theory and the leadership organization of physical education activities and the building of a program adapted to the capacities and needs of each age period. A course designed to meet the requirements for a minor. Credit, two hours. Miss Hatcher.

PSYCHOLOGY

201. General Psychology. This course is designed to give the student a knowledge of the most important facts, laws and methods of investigation of human mental life. Practical applications to problems of everyday life will be emphasized. The text used, perhaps more than any other recent one, is written simply and concretely, laying stress on the learning process in actual situations in the outside world as well as in school work. Laboratory fee, \$1.00. Credit, three hours. Dr. Anderson, Dr. Patrick.

205. Child Psychology. This course will consider the mental processes of the child particularly from five to adolescence. Topics considered are the hereditary and environmental factors, sensory and perceptual life of the child, play, curiosity, imagination, memory, imitation, language, art and musical expression, moral nature, discipline, punishment, etc. Experimental studies in child psychology will be emphasized as part of the course. Credit, three hours. Dr. Porter.

207. Educational Psychology. The primary purpose of this course is to help the student to master the elementary but significant problems and principles commonly accepted by experts as fundamental to good teaching. Discussion and lecture follow actual testing of, and experimentation with, the concrete separate problems of learning and teaching as found in school subjects, individual differences, and in many ways in which individuals influence each other. Laboratory fee, \$1.00. Credit, three hours. Dr. Lehman, Mr. Gentry, Dr. Patrick.

211. Psychology of Junior and Senior High School Pupils. The present literature bearing upon adolescence will be surveyed, with emphasis on the more recent scientific investigations. The interests, abilities, and instinctive tendencies of youth are to be given special attention. The more important phases of mental hygiene in its bearing on adolescence will also form a major division of the course. Members of the class will be given an opportunity to participate in one or more research problems in which the youth in his relation to such institutions of society as the home, school, religion and sports will be investigated. The course aims to give the junior and senior high school teacher a better physical, mental, and emotional understanding of the problems of the child at this difficult age. Credit, three hours. Mr. Gentry.

412. Abnormal Psychology and Mental Hygiene. The nature of mental adjustments made by man to adapt himself in a normal way to the requirements of modern life; the deviations from the normal leading to the maladjustments which must be considered as abnormal; the relation between the

mental processes of primitive man, the child, dream-life, and mental diseases; the theory, application, and limitations of psychoanalysis, the experimental methods giving useful results for the study of abnormal mental processes; applications of the facts of abnormal mental development to individual and social life. Clinics held at the Athens State Hospital and also at the University. Laboratory fee, \$1.00. Credit, three hours. Dr. Porter.

419. Mental Measurements. The methods of testing intelligence as worked out by Binet, Terman, and others by individual tests will be demonstrated first by the instructor and later by members of the class. Group intelligence tests will be treated in the same manner. Lectures and discussion will follow rather than precede actual experience in testing. Application of the results of recent investigations in the measurement of intelligence and other mental traits to school and other social problems such as promotion, methods of instruction, and individual diagnosis and treatment will be emphasized. Laboratory fee, \$1.00. Credit, three hours. Dr. Anderson or Dr. Patrick.

424. Clinical Psychology. An advanced course designed to give the student training and experience in giving and valuating the results of a variety of tests and measurements. Individual cases of children from the delinquent, dependent, superior, feeble-minded, and school classes will be used as problems of clinical study. Mental instability as a cause of school and social maladjustment will be studied along with mental deficiency. Recent books by Wells, Bish, Wallin, and such journals as the *Psychological Clinic*, *Journal of Applied Psychology*, *Journal of Abnormal and Social Psychology*, *Journal of Juvenile Research* and *Character and Personality* will be used as sources. Credit, three hours. Dr. Patrick.

428. Seminar and Minor Research. The field of psychology chosen for study in this course is usually one of keen current interest and of practical significance to the students electing the course. Each student works out an individual minor problem selected in consultation with the instructor. Laboratory fee, \$1.00. Credit, two hours. Dr. Porter.

432. Personnel and Vocational Psychology. Topics dealt with in this course will be chosen with reference to their bearing on personnel problems and vocational problems to be met in industrial, commercial and educational work. Each student will be expected to work out a minor problem bearing on occupational interests, aptitudes or selection and training. Credit, three hours. Dr. Lehman.

435. Minor Problems. These courses are intended to give the student training in the scientific study of some problem in which the student himself is particularly interested. An attempt will be made to bridge the gap which too commonly exists between undergraduate and graduate study. Students interested may confer with members of the staff. Laboratory fee, \$1.00. Credit, one to three hours.

ROMANCE LANGUAGES

101s-102s. Beginning French. This is a course for beginners, and covers the work of the first year of college French or of two years in high school. Students are expected to take both courses simultaneously, but those who have

credit for the first semester in college or for the first year in high school may, if they desire, register for Course 102s only, selecting either the first or the second hour of recitation, or beginning attendance at both hours with the fourth week of the session. It is nearly always advisable for such students to be present the full two-hour period each day from the start, however, as a systematic review is generally necessary where some time has elapsed since the first semester was taken. Two hours daily. Credit, six hours (one year of foreign language). Dr. Ondis.

303s. Intermediate French. This course is designed for students who have had one year or more of college French, or two years or more of high school French. It will be of such nature as to fit the needs of those desiring either semester of second-year French in college, or work in addition to the regular second year, and will not overlap or conflict with other courses given previously. Stress will be laid upon pronunciation, and a general grammar review will be included in the form of regular and systematic exercises in composition. The course is recommended especially to teachers or prospective teachers who would like a thorough review. One hour daily. Credit, three hours (one-half year of foreign language.) Dr. Wilkinson.

305s. Readings from French Literature. The work here offered is intended to illustrate certain phases of the general survey of French literature. Assignments and reports dealing with the content of works and the historical and literary background will accompany the readings. One or two hours of credit, depending on the amount of ground covered. Dr. Wilkinson.

319s. French Drama: Victor Hugo. The dramatic works of Victor Hugo will provide the concentration for this course. Individual plays will be assigned read, and discussed, both as to their content and to the historical and literary background involved. One or two hours of credit, depending on the amount of ground covered. Dr. Wilkinson.

305s-306s. Supplementary Readings in Italian Literature. This course may be elected by any student able to read ordinary Italian. The work is carefully supervised, and is accompanied by periodic conferences between student and instructor. Credit, one or two hours each semester. Drs. Wilkinson or Ondis.

309s-310s. Italian Composition. Available to students who satisfy the instructor of their fitness to undertake the work, which is graded to coincide with individual preparation. Credit, one or two hours. Drs. Wilkinson or Ondis.

320s. Advanced Italian. This course offers special work to students qualified to undertake advanced study. Those interested should consult the instructor on program and choice of subjects. Credit, one to four hours. Drs. Wilkinson or Ondis.

111s. Pronunciation of Romance Languages. This is a comparative study of the pronunciation of French, Italian, and Spanish. No previous knowledge of the languages in question is required or presupposed. The course is recommended in particular to teachers of language and to all interested in art, geography, history, music, or literature. Two hours a week. Credit, one hour. Dr. Wilkinson.

351s-352s. Romance Philology. Old French, dealing with the beginnings of

the language and with the early literary monuments. Four hours a week. Credit, two hours. Drs. Wilkinson or Ondis.

101s-102s. Beginning Spanish. This course is intended for students who have no knowledge of the language. During the course, the essentials of grammar will be covered, with emphasis on pronunciation, drill in verbs, and considerable translation into Spanish. As soon as the progress of the class permits, a reader will be introduced and simple conversation in Spanish employed. Students are expected to take both courses simultaneously, but those who have credit for the first semester may register for Course 102s only, if they wish, selecting either hour of recitation at their convenience, or beginning attendance at both hours with the fourth week of the session. It is advisable for such students to be present the full two-hour period each day, however, as a systematic review is generally necessary where time has elapsed since the first semester was taken. Two hours daily. Credit, six hours. (One year of foreign language). Dr. Wilkinson.

105. Spanish Culture and Civilization. This course will be conducted in English, and no knowledge of Spanish is required. The object of the class will be to give students of history, English, and the other Romance languages an opportunity to become acquainted with the history, literature, and cultural development of Spain. Given in summer only. Credit, one hour. Dr. Ondis.

303s. Intermediate Spanish. This course is designed for such students as have had one or two years of college Spanish. It will be of such nature as to fit the needs of those desiring either semester of second-year Spanish in Ohio University, or work in addition to the regular second year in college, and will not overlap or conflict with other courses given previously either in the regular year or in the summer. The course will include grammar review, practice in composition, and introduction to Spanish literature, and as much conversation in Spanish as is feasible. The course is recommended especially to teachers and prospective teachers who would like a thorough review. One hour daily. (One-half year of foreign language.) Credit, three hours. Dr. Ondis.

320. Advanced Spanish. This course offers special work to students qualified to undertake advanced study. Those interested should consult the instructor on program and choice of subjects. Credit, one to four hours. Dr. Ondis.

SOCIOLOGY

The courses offered in this Department are designed to develop in the minds of students an intelligent appreciative interest in the general problems of moral and social well being. Sociology may be defined as the science of interdependent and integrated living and art of making harmonious and helpful adjustments in the various relationships of life.

201. Educational Sociology: Introduction. A discussion of education as a social process conditioned by social groups and institutions, social attitudes and values; the pupil as a person and a number of various groups; the sociological basis of teaching and classroom organization; the sociological aspects of the curriculum; the school in its relation to the community. Credit, two hours. Mr. Jeddeloh.

203. Principles of Sociology. The purpose of this course is to direct the student in a comprehensive survey of the most important principles underlying the general field of Sociology, to give him a working use of the chief concepts employed as instruments of sociological analysis and interpretation and to acquaint him as far as possible with the standard literature in the field of general sociology. Credit, three hours. Dr. Taylor.

204. Social Problems. An attempt to apply the principles and techniques of general sociology to the analysis and solution of social problems. The nature of social problems as stresses and strains and forms of social, cultural, and personal maladjustment and disorganization will be studied as they arise in the operation of contemporary society under the influence of the dynamics of physical, bio-physic, and cultural factors. Particular emphasis will be given to the emergence of such major social problems as surround marriage, the family, child-life, youth, women, old age, employment, health, social and mental hygiene, housing, education, religion, race, migration, crime, dependency, and poverty. Social theories and measures for relief, personal readjustment, social reorganization, and social planning will conclude the study. Credit, three hours. Mr. Jeddelloh.

212. The Rural Life Movement. This course is a general review of the work of the various movements and agencies which have as their purpose the improvement of rural life, such as the Grange, Farm Bureau Federation, American Country Life Association, 4H Clubs, and others. The history, the structure and functions, and a critical analysis of the problems and the utility of these and other organizations will be considered. Programs for the improvement of rural society with the problems therein involved will be discussed. Credit, two hours. Dr. Taylor.

414. Urban Sociology. This study will concentrate on cities as dynamic mechanisms in modern culture resulting in social behavior, personality organization, social values, and social structures of marked diversity and fluidity. A brief survey of historical types of cities and their structures will be followed by a more intensive study of the contemporary city and its natural social areas; its interdependence with the surrounding hinterland; its system of communication, transportation, sanitation, and housing; its economic, political, religious, educational familial, and recreational patterns; its composition of population; its social movements; its mental and moral outlook; its personality types; and its particular forms of social pathology and maladjustment. This analysis will conclude with emerging theories, programs, and experiments of city and regional planning. Credit, three hours. Dr. Taylor.

426. Juvenile Delinquency. The informational aspect of this course will cover such materials as causative factors in juvenile delinquency, characteristics of delinquents, community control of delinquency, juvenile court procedure, probation, and correctional training in institutions. Information will be drawn from available studies, from case records, and from institutional experience. Field contact and the handling of a certain amount of realistic data should develop some skill in diagnosing causative factors in delinquency, in planning for home and community adjustment, and in approaching cases. Credit, two hours. Mr. Jeddelloh.

SPEECH AND DRAMATIC ART

103. Public Speaking I. A beginning course. The purpose of this study and practice is to enable the student, in some measure, to overcome stage fright, to think on his feet before an audience, to feel at home on the platform, to find suitable topics to talk about, to discover sources of worthwhile things to say, to establish contact with his audience, and to build a speech that shall be both interesting and persuasive. Some attention will be given to the use of the voice and the body in the delivery of the speech. Credit, two hours. Mr. Staats.

106. Oral Expression. Elective in Kindergarten-Primary course. Practice and study in the oral presentation of subject matter. Credit, one hour. Mr. Cooper.

304. Oral Interpretation of Poetry and Prose. The objectives of this course are: to teach the student what to look for and what to find in any literary production; to get the meaning from the printed page and to respond to its appeal; to read distinctly; to give the sense, the thought-element; to exhibit vocally the relative values of groups of thought; and to cause the hearers to understand and respond to the appeal of literary truths. Credit, two hours. Mr. Staats.

306. Parliamentary Law. A study, with some practice, of the art of conducting a public gathering; leading, or taking part in group discussions. The art of presiding over an assembly, introducing proper motions, and speaking to questions from the floor. The art of getting things successfully done in any organized group of people. Credit, two hours. Mr. Cooper.

307. Psychology of Public Speaking. A study of the most effective means of influencing human behavior through speech. To this end the course concerns itself with such topics as:—capturing and holding the attention, the use of suggestion, analyzing the audience, impeling motives, creating the will to believe, principles of persuasion and interest, picturing ideas and problems of vividness. Credit, two hours. Mr. Cooper.

315. Play Directing (A methods course.) A practical course of instruction in the technique of staging a play and in the art of directing play rehearsals. The course is designed to enable the student to "put on" a play successfully in his own school or town. It is, therefore, a study of the art of acting as well as of the art of directing. A study of stage terms, characterization, stage balance and grouping, stage movements and business, tempo, pause, emphasis, climax, and stage pictures. Several plays are criticized as a part of the class work. Credit, three hours. Mr. Cooper.

319. Dramatic Interpretation. Theory and practice of acting for the amateur actor. A study of the interpretative art planned for the individual as well as the ensemble. By means of pantomime, improvisation of dramatic scenes, the monologue, excerpts from plays, the student is aided in building the dramatic character. Opportunity for the learning of stage technique is given by casting students from this course in the laboratory plays presented in the play directing class. Open to Sophomores, Juniors, and Seniors who have completed Course 105. Credit, three hours. Mr. Staats.

PART II. THE POST SUMMER SESSION

The post summer session is organized to meet the needs of students who wish to utilize the three weeks of time for their advancement in collegiate study. It is expected that students who register for the various courses will be organized into formal classes only when the number of students in any course makes such organization advisable. It is probable that most of the study will be carried on in an informal way on the conference basis. Under this plan the needs of each student can be met whenever a teacher of the selected subject is available.

In order that plans may be made, students who expect to attend the post summer session are asked to notify the Office of the Registrar not later than Saturday, July 22. When filing such notice please state the title and course number of the course which is desired.

DEPARTMENTS OF INSTRUCTION

The departments of the University which will offer work during the post summer session are herewith listed with a general statement of courses which can be offered.

AGRICULTURE

208. Forestry. This course is a continuation of 207 and aims to acquaint the student with ways and means of identification and classification of native trees and shrubs. A study is made of leaves, buds, wood, fruits. Credit, two hours. Dr. Copeland.

415. Evolution and Heredity. (See description on page 23 of this bulletin.) Credit, three hours. Dr. Copeland.

416. Evolution and Heredity. A continuation of Course 415. In addition a study is made regarding the influence of environment and innate factors relating to human betterment. Credit, three hours. Dr. Copeland.

417. Rural Economics. A study of theories relating to farm problems of wages, rent, labor, land values, farm management, and marketing. Credit, three hours. Dr. Copeland.

ART

†101. History of Art. An outline of the history of art from the earliest times to the present. Credit, three hours.

201. Art Education. (See description on page 24 of this bulletin.) Credit, two hours. Miss Bedford.

202. Art Education for Intermediate and Higher Grades. (See description on page 24 of this bulletin.) Credit, one hour. Miss Bedford.

204. Art Education for Early Childhood. (See description on page 24 of this bulletin.) Credit, one hour. Miss Bedford.

†Mr. Roos will offer the courses for which there is sufficient demand.

209. Practical Arts. A course including problems that would give experience with varying materials. Special emphasis will be placed on the application of the principles of art structure to marionettes, toys, weaving, etc. Prerequisite, Course 201 or 216. Credit, two hours. Miss Bedford.

217. Art Structure. Art structure applied to lettering. Study of form, tone spacing, manuscripts, initial letters, and advertising. Prerequisite, Course 213 or 215. Credit, three hours. Miss Bedford.

†307. American Architecture. A study of our most important works of architecture from the earliest settlements to the present day, with the Colonial, Republican, and Modern styles each studied in turn by means of dated examples. Credit, two hours.

†312. Modern Architecture and Sculpture. This course parallels Course 311, which is described on page 24 of this bulletin. Credit, two hours.

BIOLOGY

The Biology Department will give opportunity for study in the various courses of the department if the demand is sufficient to warrant it.

CHEMISTRY

Mr. Gullum will be available for instruction in the various courses of the Chemistry Department if the demand is sufficient.

CIVIC BIOLOGY AND BOTANY

***205. Civic Biology.** (See description on page 27 of this bulletin.) Credit, three hours. Dr. Matheny.

***206. Civic Biology.** (See description on page 27 of this bulletin.) Credit, three hours. Dr. Matheny.

403. General Botany. A course intended to expand the work considered in Courses 203 and 204. It is also intended to meet the needs of more advanced students who have had some work in biological sciences, but without formal botanical credit. Laboratory fee, \$2.00. Credit, three hours. Dr. Matheny.

****413. The Teaching of Biology.** A methods course adapted to the needs of those who expect to teach the subject. Credit, two hours. Dr. Matheny.

****414. Methods in General Science.** (See description on page 28 of this bulletin.) Credit, two hours. Dr. Matheny.

417. Bacteriology. (See description on page 28 of this bulletin.) Credit, three hours. Dr. Matheny.

CIVIL ENGINEERING

The Department of Civil Engineering will give opportunity for study in the various courses of the department if the demand is sufficient to warrant it.

*The course given will depend on the advance requests for 205 and 206.

**The course given will depend on the advance requests for 413 and 414.

†Mr. Roos will offer the courses for which there is sufficient demand.

COMMERCE

The School of Commerce will give opportunity for study in the various courses of the department if the demand is sufficient to warrant it.

ECONOMICS

One professor in the Department of Economics will be available for courses in the department if there is a demand for them.

EDUCATION

Several members of the staff in Education will be available to offer courses during the Post Session if requests for courses warrant their staying. The following courses are suggested:

205. Literature for Early Childhood. (See description on page 33 of this bulletin.) Credit, three hours. Mrs. Quick.

265. Teaching Reading in Primary Grades. (See description on page 33 of this bulletin.) Credit, two hours. Mrs. Quick.

468. History of Education in United States. The European influence on American colonial life and education; social, economic, and political forces and their influence on the development of education; the rise and expansion of public education; the growth of the high school, and the development of a teaching profession; the support and control of public education. The period from colonial times to the present is treated. Students desiring some knowledge of the origin and growth of public education in the United States should elect this course. Credit, three hours. Dr. Gard.

470. Comparative Education. (See description on page 34 of this bulletin.) Credit, three hours. Dr. Gard.

475. Seminar and Minor Research in Education. (See description on page 35 of this bulletin.) Credit, two or three hours. Dr. Gard.

485. School Administration. (See description on page 35 of this bulletin.) Credit, three hours. Dr. Morton.

Other courses in Education may be made available if requests are made early in the summer.

ELECTRICAL ENGINEERING AND PHYSICS

The Department of Electrical Engineering and Physics will make available the following courses:

103. Introduction to Physics. (Freshman course.) This is an elementary treatment of the subjects of mechanics of solids, liquids, and gases; heat; sound. It is adapted to the needs of students of medicine, and meets half of the requirement of six hours in the Natural Science group. Credit, three hours.

104. Introduction to Physics. (Freshman course.) See page 38 of this bulletin. Credit, three hours.

305. General Physics. (Sophomore course.) See page 39 of this bulletin. Credit, three hours.

306. General Physics. (Sophomore course.) This is adapted to the needs of students majoring in science, to students in chemistry, and in engineering. The subjects covered in this second semester course are magnetism, electricity, and light. Credit, three hours.

321a. Electrical Engineering Laboratory. (Junior course.) In this course measurements are made of the earth's magnetic field and other magnetic fields; induced electromotive forces; B-H curves and permeabilities; temperature coefficients of resistance; resistances by bridge, potentiometer, and other methods; capacities; transients; self and mutual inductance. Credit, two hours.

ENGLISH LANGUAGE AND LITERATURE

The following courses, for which there is sufficient demand, will be available:

101. English Composition. Required of all students. Recitations, themes, and conferences. A text dealing with the rules and principles of composition is used and supplementary reading is required. Credit, three hours. Miss Lash.

102. English Composition. A continuation of Course 101. The supplementary text is usually a book of short stories. Credit, three hours. Miss Lash.

303. Survey of English Literature. The emphasis of the course is on the historical developments and types of English literature. Credit, three hours. Dr. Heidler.

304. Survey of English Literature. (See description on page 40 of this bulletin.) Credit, three hours. Miss Lash.

309. Eighteenth Century Romanticism. The course will trace the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance, etc. Open to Juniors and Seniors. Credit, two hours. Dr. Heidler.

313. Advanced Exposition. A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student will be supplemented by the study of meritorious examples from experienced writers. Credit, three hours. Dr. Heidler.

315. English Prose Fiction. A study of the development of the English novel. Instruction will be mainly by lectures. Each student will be expected to report upon a list of novels, selected from different periods. Open to Juniors and Seniors. Credit, three hours. Mr. Mackinnon.

319. Contemporary Literature. An extensive reading course in the best books of the season. Each student is required to read books and to make formal reviews of several. A fee is charged in the course. Open to Juniors and Seniors. Credit, two hours. Mr. Mackinnon.

331-332. Comparative Literature. A course introducing the student, by means of lectures and the reading of translations, to the most significant productions of Greece, Rome, Italy, Spain, France, Germany, and England. Credit, two hours for either course. Dr. Heidler.

Dr. Foster and Dr. Caskey will make available courses in English which they usually offer during the college year. Requests for specific courses will be given careful consideration.

GERMAN

Mrs. Matthews will be available for instruction in courses in German if there is a demand for them.

HISTORY AND GOVERNMENT

Dr. W. C. Harris will offer any of the following courses for which there is sufficient demand.

101. Medieval European History. (See description on page 42 of this bulletin.) Credit, three hours.

102. Modern European History. (See description on page 42 of this bulletin.) Credit, three hours.

201. American History. (See description on page 42 of this bulletin.) Credit, three hours.

202. American History. (See description on page 42 of this bulletin.) Credit, three hours.

203. American Government. Credit, three hours.

305. The British Empire. A study of the evolution of Canada, Australia, India, etc., with special emphasis on recent imperial problems. Open to Juniors and Seniors. Credit, three hours.

309. English History to 1485. Recommended to those who plan to study law. Credit, two hours.

310. English History Since 1485. Continuation of Course 309, which, however, is not prerequisite. Credit, two hours.

315. The World War, 1914-1918. Open to Juniors and Seniors. Credit, two hours.

316. Europe Since 1918. The aim of this course is to give the student an intelligent view of recent and current European affairs. Credit, two hours.

323. History of Civilization. Beginning with the theories of the origin of the earth and of man, this course traces the evolution of culture from savagery to barbarism and from barbarism to the earliest civilization of Egypt, the Tigris-Euphrates valley and the Aegean. Thence it carries the story of civilization down to the present day. It is believed that a general survey of this kind will prove useful to those intending to specialize in the social sciences and that it will also be of value to those students whose interest in other fields leaves little time for extensive work in history. Credit, three hours.

324. History of Russia. The story of the Russian people from the earliest times to the present day. Open to Juniors and Seniors. Credit, three hours.

427. Research in American History and Government. (See description on page 43 of this bulletin.) Credit, one to three hours.

Other courses will be made available if requests are made early in the summer. Mr. Hoover and Mr. Morrison will offer courses.

JOURNALISM

The courses offered in Journalism in the regular Summer Session will be given in the Post Summer Session if there is a demand for them. For description of courses, see page 46 of this bulletin.

LATIN

Mr. Hill will offer courses in Latin based upon demand.

MATHEMATICS

Dr. Morton of the College of Education will make available the following courses:

207. Teaching Arithmetic in the Primary Grades. (See description on page 47 of this bulletin.) Credit, three hours.

209. Teaching Arithmetic in the Intermediate Grades. (See description on page 47 of this bulletin.) Credit, three hours.

211. Freshman Algebra I. This course is designed for those students who have had but one year of algebra in the high school. A review of first year algebra is provided. Each topic reviewed is extended into higher and more difficult levels than is usual in a high school course. Topics studied intensively include factoring, fractions, powers and roots, exponents, radicals, quadratic equations, systems of equations, ratio and proportion. Credit, three hours.

212. Freshman Algebra II. Students who have completed Freshman Algebra I, 211, and students entering with one and one-half or more units of entrance credit in algebra are admitted to Freshman Algebra II. This course in college algebra is designed primarily for prospective teachers of high school mathematics. Linear and quadratic functions, arithmetic and geometric progressions, mathematical induction, complex numbers, permutations, combinations, probability, and theory of equations are among the topics treated. Credit, three hours.

409. Statistics. (See description on page 47 of this bulletin.) Credit, three hours.

410. Advanced Statistics. Non-linear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients are the principal topics included in this course. Practice is provided in the use of logarithms, statistical tables, and calculating machines. This course is open to those who have completed Course 409, or its equivalent, and who secure the consent of the instructor. Credit, three hours.

One professor in the Department of Mathematics in the College of Arts and Sciences will be available in case there is demand for regular courses or for graduate work on the conference basis.

MUSIC

If requests are made in advance in sufficiently large numbers Music Fundamentals 201 will be made available. Credit, two hours.

PHILOSOPHY

Dr. Houf will offer any two of the following courses for which there is greatest demand:

301. General Ethics. (See page 49 of this bulletin.) Credit, three hours.

303. Introduction to Philosophy. (See page 49 of this bulletin.) Credit, three hours.

307. The World's Great Religions. A historical and comparative treatment of the origin, literature, beliefs, practices, and values of the living religions of the world. Open to Sophomores, Juniors, and Seniors. Credit, two hours.

313. American Philosophy. A study of the speculative thought movements in American history with a view to explaining the philosophical background of our literature, social institutions, and national character. Prerequisite, three hours in philosophy, or Junior or Senior rank. Credit, two hours.

PSYCHOLOGY

Students will have the opportunity to pursue courses in Psychology, as follows:

201. General Psychology. (See description on page 52 of this bulletin.) Credit, three hours.

205. Child Psychology. (See description on page 52 of this bulletin.) Credit, three hours.

206. Business Psychology. Recently established facts and conclusions in the application of psychology to business and industrial relations. The following topics are discussed: the relation of human reflexes and instincts to business methods; the application of facts and laws of mental heredity to efficiency methods; the relation of the laws of learning to training; the relation of environmental conditions, such as climate, weather, to efficiency, rest, sleep, etc.; the psychological principles involved in scientific management in office and shop; some of the more important psychological aspects of professional work. Credit, three hours.

207. Educational Psychology. (See description on page 52 of this bulletin.) Credit, three hours.

415. Social Psychology. An intensive study of the social-mental relations between individuals, the mental nature of human social groups and their behavior; a study of the instincts which make for social and individual development. The significance of instincts, of habit formation and reflection in human social life. The social meaning of individual differences, methods of investigating social behavior, the psychology of moral, social and religious development. Credit, three hours.

419. Mental Measurements. (See description on page 52 of this bulletin.) Credit, three hours.

435. Minor Problems. (See description on page 53 of this bulletin.) Credit, one to three hours.

Mr. Gentry will offer these courses assisted by another member of the regular staff, depending upon the registration for the above courses.

ROMANCE LANGUAGES

The Department of Romance Languages will give opportunity for study in any course in the department for which there is sufficient demand.

SOCIOLOGY

Dr. Ash will make available courses in Sociology. Selection of courses to be offered will be based on requests which are made early in the summer.

SPEECH AND DRAMATIC ART

Mr. Staats will offer the following courses for which there is sufficient demand, and any other course in the department, for which there is demand, will be given.

103. Public Speaking I. (See page 56 of this bulletin.) Credit, two hours.

105. Voice and Diction. The development of a pleasing and effective speaking voice. Emphasis is given to voice production and projection, attack, melody, tonal shading, phrasing, enunciation, and pronunciation. The oral reading and interpretation of modern prose and poetry before the class audience affords the individual opportunity for personal growth. Open to all students. Credit, two hours.

304. Oral Interpretation of Poetry and Prose. (See page 57 of this bulletin.) Credit, two hours.

319. Dramatic Interpretation. (See page 57 of this bulletin.) Credit, three hours.

INDEX

	<i>Page</i>		<i>Page</i>
Absences	16	Post Session	58
Administrative Assistants	5	Credit hours	2-15
Administrative Officers	4	Post Session	2
Admission		Degree	
to freshman rank	13	Bachelor's	14
of out-of-state students	13	Master's	14
as unclassified students	14	Departments of Instruction	23
to advanced standing	14	Post Session	58
to the Summer Sessions	14	Dormitories, see Rooms and Board for	
Advanced Standing, admission to	14	Women	
Agriculture, courses in	23	Dormitory Staff	5
Post Session	58	Dramatic Art, See Speech and	
Alumni Office, staff of	5	Economics, courses in	32
Appointments, Bureau of	21	Education, courses in	32
staff of	5	Special Education	32
Art, courses in	23	History, Principles, and Administra-	
Post Session	58	tion of Education	33
Bachelor's Degree	14	Observation and Student Teaching...	33
Band Participation	22	Electrical Engineering and Physics,	
Biology, courses in	25	courses in	33
Post Session	59	Elementary Training Schools	18
Civic, and Botany	27	staff of	11
Post Session	59	English Language and Literature,	
Botany, courses in	27	courses in	40
Post Session	59	Post Session	61
Business courses, see Commerce		Entrance to Ohio University, see Admis-	
Calendar, University	3	sion	
Certification requirement to teach in Ohio	29	Equipment	18
Change of subject	16	Examination, admission by	14
Chemistry, courses in	26	for advanced standing	14
Chorus Participation	22	Expenses	16
Civic Biology and Botany, courses in ...	27	Extension Division, staff of	5
Post Session	59	Faculty	15
Civil Engineering, courses in	25	members of	6
Post Session	59	Fees	16
College Ability Test	14	student teaching	18
Commencement, Regular Session	2	Financial Staff	4
Post Session	2	French, see Romance Language	
Commerce, courses in	30	Freshman Rank, admission to	13
Committees of the Board of Trusteescover		Geography and Geology, courses in	41
Courses of Study	15	German, courses in	42

	<i>Page</i>		<i>Page</i>
Graduate study	15	Registration	2
Graduation, requirements for	15	Psychology, courses in	52
Health, see Physical Education and		Post Session	64
High School	19	Registration	2
staff of	12	Registrar's Office, staff of	4
History, Post Session	62	Post Session	2
History and Government, courses in	42	Requirements for Admission, see Admis-	
Home Economics, courses in	44	sion	13
Industrial Education, courses in	45	for certification to teach in Ohio	20
Infirmiry, staff of	5	residence	15
Information, general	13	Romance Languages, courses in	53
Journalism, courses in	46	Rooms and Board for Men	17
Post Session	62	for Women	17
Laboratory Fees	17	Schedule of Recitations	16
Languages, see Classical and Romance		Secretarial Staff	5
Library, Edwin Watts Chubb	17	Secretarial Studies, see Commerce	
staff of	4	Service Bureau, staff of	5
Location of Ohio University	13	Sociology, courses in	55
Mathematics, courses in	47	Post Session	65
Post Session	63	Spanish, see Romance Languages	
Men, Rooms and Board for	17	Special Education, see Education	
Men's Grill	17	Speech and Dramatic Art, courses in	57
Men's Housing Bureau	17	Post Session	65
Music, courses in	47	State Department of Education	
Musical Activities	22	Requirements for Certification	20
Officers of Administration	4	Student load, see Credit hours	
of Board of Trustees	cover	Student teaching and Observation	36
of instruction	6	facilities for	18
Orchestra Participation	22	fees	18
Origin of Ohio University	13	prerequisites	19
Out-of-state Students, admission of	13	Subjects, change of	16
fees for	16	Summer Sessions	
Philosophy, courses in	49	Post Session	2
Post Session	63	Regular Session	2
Physical Education and Health		Teaching Requirements	20
Special 4-Week Course	22	Training Schools	18
courses in, for men	50	staffs of	11
courses in, for men and women	51	Transfer students, see Admission to	
courses in, for women	51	advanced standing	
Physics, see Electrical Engineering		Trustees of Ohio University	cover
Post Summer Session	60	Unclassified Students, admission as	14
Commencement	2	Women, Rooms and Board for	17



